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# **WATERBORNE TRANSPORTATION LINES OF THE UNITED STATES**

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Calendar Year 1998

Volume 1 –  
National Summaries

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Compiled under the supervision of  
the Water Resources Support Center  
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# Contents

	Table	Figure	Page
Introduction			ii
Terminology			iii
Summary of the United States Flag Passenger and Cargo Vessels Operating or Available for Operation on December 31, 1998 by Region	1		3
Summary of the United States Vessel Inventory by Region for 1998		1-1	4
Summary of the United States Vessel Inventory by Type of Vessel for 1998		1-2	5
Summary of the United States Flag Passenger and Cargo Vessels Operating or Available for Operation by Year	2		6
Summary of the United States Vessel Inventory by Year		2	7
Summary of the United States Year of Fleet Construction by Vessel Type for 1991-1998	3		8
Summary of the United States Year of Fleet Construction by Vessel Type for 1991-1998		3	9
Summary of the United States Flag Vessels by Vessel Type and Age for 1998	4		10
Summary of the United States Flag Vessels by Vessel Type and Age for 1998		4	11
Summary of the United States Towboat Fleet by Horsepower for 1998	5	5	12
Summary of the United States Tank Barge Fleet by Barge and Size for 1998	6	6	13
Summary of the United States Shallow Draft Tank Barge Fleet by Barge Type and Size for 1998	7	7	14
Summary of the United States Deep Draft Tank Barge Fleet by Barge Type and Size for 1998	8	8	15
Summary of the United States Dry Cargo Barge Fleet by Barge Type and Size for 1998	9		16
Summary of the United States Dry Cargo Barge Fleet by Barge Type and Size for 1998		9	17
Summary of the United States Shallow Draft Dry Cargo Barge Fleet by Barge Type and Size for 1998	10		18
Summary of the United States Shallow Draft Dry Cargo Barge Fleet by Barge Type and Size for 1998		10	19
Summary of the United States Deep Draft Dry Cargo Barge Fleet by Barge Type and Size for 1998	11		20
Summary of the United States Deep Draft Dry Cargo Barge Fleet by Barge Type and Size for 1998		11	21
Summary of the United States Shallow and Deep Draft Vessels by Vessel Type for 1998	12	12	22
Summary of the United States Flag Vessels: Available Versus Operating by Vessel Type for 1998	13	13	23
Ordering Guide for the Navigation Data Center Reports			
Waterborne Commerce, Vessel and Locks Statistics			
Ordering Guide for Port Series Reports			

## Introduction

The annual revision of the *Waterborne Transportation Lines of the United States (WTLUS)* contains summary information of the vessel companies and their American flag vessels operating or available for operation on 31 December 1998 in the transportation of freight and passengers. Floating equipment used in construction work, such as dredges, piledrivers, and flats; fishing vessels; and recreational craft are not included. The **WTLUS** is prepared under authority contained in the Rivers and Harbors Appropriations Act approved 22 September 1922, (42 Stat. 1043), as amended, and codified in 33 U.S.C. 555.

The **National Summaries, Volume 1**, is one of three publications for the annual revision of the **WTLUS**, which provides a condensation of the vessel data detailed in the **WTLUS**. Summarized vessel characteristics are represented in both tabular and graphic format.

The **Vessel Company Summary, Volume 2**, provides a summary of the vessel companies detailed in the **WTLUS**, **Vessel Characteristics, Volume 3**. The names of the vessel companies are listed alphabetically with their business address and telephone number, the Engineer District number, the TSOoperator (vessel company) number (for usage in querying computer data), principal commodities carried, the points or localities and waterways between which or on which operated and the number of vessels reported by vessel type.

The **Vessel Characteristics, Volume 3**, lists the vessel companies in alphabetical sequence and describes each vessel surveyed by indicating its name and number, Coast Guard number, net tonnage, type by VTCC code (Vessel Type, Construction and Characteristics) and ICST code (International Classification of Ships by Type; see Terminology for VTCC and ICST), register and overall length and breadth, loaded and light draft, horsepower, carrying capacity in short tons or units of cargo and number of passengers, height of fixed superstructures, cargo handling equipment, operating headquarters, and year built or rebuilt. Detail vessel characteristics may not be available for all vessels included in the total **WTLUS** vessel inventory.

The detail vessel data is available upon request on diskettes or CD-ROM. Ordering information is available from the Waterborne Commerce Statistics Center, P.O. Box 61280, New Orleans, LA 70161-1280. (Telephone 504/862-1424 or FAX 504/862-1423).

The **WTLUS** publication is a by-product of the Waterborne Commerce Statistics Center (WCSC) Master Vessel File. The annual survey would be done even if there were no **WTLUS** publication because the survey is a necessary and integral part of the WCSC enforcement and collection program. Tracking vessel owners and operators is the primary means of identifying non-reporting carriers and new vessel operating companies.

## Terminology

**TOperator:** (Vessel Company) a Transportation Lines vessel company surveyed and assigned a seven digit code by the Waterborne Commerce Statistics Center (WCSC). The vessel inventory for each TOperator is reported annually to WCSC and is contained in the Master Vessel File. The first two digits of the TOperator code denotes the Engineer Division / District code with the last five digits forming a unique number assigned to a particular TOperator. There are 2,535 TOperators listed in the WTLUS publication for calendar year 1998.

**Engineer Division / District:** (ENGR DIST) WCSC two digit code for the U.S. Army Corps of Engineer Division / District. Its usage in the TOperator code is to identify where the vessel company is domiciled.

01	New England Division	29	St. Louis, MO
03	New York, NY	30	Memphis, TN
07	Philadelphia, PA	31	Vicksburg, MS
09	Baltimore, MD	32	New Orleans, LA
11	Norfolk, VA	33	Galveston, TX
12	Wilmington, NC	34	Little Rock, AR
13	Charleston, SC	35	Kansas City, MO
14	Savannah, GA	36	Seattle, WA
15	Jacksonville, FL	37	Portland, OR
16	Mobile, AL	38	Alaska
17	Nashville, TN	39	San Francisco, CA
18	Louisville, KY	40	Sacramento, CA
20	Huntington, WV	41	Los Angeles, CA
21	Pittsburgh, PA	42	Pacific Ocean Division
22	Buffalo, NY	43	Omaha, NE
23	Detroit, MI	44	Walla Walla, WA
26	Chicago, IL	45	Tulsa, OK
27	St. Paul, MN	46	Fort Worth, TX
28	Rock Island, IL	47	Albuquerque, NM

**Coast Guard Number:** the official number assigned to a particular vessel by the U.S. Coast Guard at the time of registration. This number is normally retained by a vessel throughout the life of the vessel.

**Net Tonnage:** the volume of space available for the accommodation of passengers and the stowage of cargo, expressed in units of 100 cubic feet for each net ton. The net tonnage is recorded on the vessel's registration papers or it can be determined as the difference between gross tonnage and the volume of space used for the accommodation of the vessel master, officers, crew, navigation and propelling machinery expressed in units of 100 cubic feet per ton. The net tonnage should not be confused with a tonnage capacity because it simply expresses a volume capacity for passengers and cargo. Depending on the type of cargo being transported the tonnage that can be stowed in the volume of 100 cubic feet will vary, although generally speaking, the total tonnage capacity should not exceed three times the net tonnage of the vessel.

**VTCC Code:** Vessel Type, Construction and Characteristics code, which describes in general terms the vessel type, construction and characteristics of the marine structure; e.g. 2A22 represents the code for a self-propelled, liquid bulk tanker constructed of steel. See the "Explanation of Vessel Type, Construction and Characteristics" listing for descriptions of the VTCC codes on page vi.

**ICST Code:** International Classification of Ships by Type was developed by an ad hoc international advisory group on Maritime Statistics and completed in 1994. The classification is based on the construction characteristics of the marine structure and not upon its particular use or cargo carried at a point in time. The ICST codes and descriptions and the cross reference list between the VTCC and ICST codes are provided on pages v and vii, respectively.

#### Length

**Register:** (LENGTH REG.) the length of the vessel measured on the top of the tonnage deck from the forepart of the outer planking or plating at the bow to the afterpart of the sternpost of screw steamers and to the afterpart of the rudder post of other vessels. The register length is reported in units of feet to the nearest tenth.

**Overall:** the extreme length of the vessel which would include any structure which extends beyond the outer planking or plating on the bow or any structure that extends beyond the sternpost on screw steamers and to the afterpart of the rudder post of other vessels. The overall length is reported in units of feet to the nearest tenth.

#### Breadth

**Register:** (BRDTH REG.) the breadth of the vessel at its widest part measured from the outside of the planking or plating on one side to the corresponding point on the opposite side, reported in units of feet to the nearest tenth.

**Overall:** the extreme breadth of maximum breadth of the vessel to the outside of the vessel's structure, reported in units of feet to the nearest tenth. Includes the paddle boxes in paddle ships.

#### Draft

**Loaded:** the draft of the vessel when fully loaded, reported in units of feet to the nearest tenth.

**Light:** the draft of the vessel when it is empty, reported in units of feet to the nearest tenth.

**Horsepower:** horsepower rating when the vessel was new or when the present engine was installed.

**Capacity Tons:** (cargo capacity) the full load capacity of the vessel in short tons (2,000 lbs.).

**Passengers:** the passenger capacity of the vessel in units.

**Capacity Reference:** designates a type of cargo carried by that particular vessel as defined:

Character	Type of Cargo
Blank	General Bulk Cargo
+	Railroad Cars
#	Autos, Vehicles, Trailers
%	Cargo Capacity Railroad Cars
@	Vans
&	Container

**Highest Fixed Point:** the height of the highest fixed point on the vessel in units of feet to the nearest tenth. The height represents the distance between the waterline of the vessel (when light) and the highest fixed point on the vessel, such as a pilot house, mast, etc. If the highest point of a vessel is a hinged stack or retractable pilot house, the distance is given to the hinge or top of pilot house in lowered position.

**Cargo Handling Equipment:** permanent fixtures on the vessel, such as cranes, derricks, hoists, pumps, etc. and handling capacity and type of power used to operate the equipment, such as steam, electric, diesel, etc. LINE-1 and LINE-2 break up the descriptive data to print in a two line format.

**State Code:** the U.S. Postal code for state abbreviation for the operating headquarters of the vessel.

**Vessel Operating Base:** the city or locality of the operating headquarters of the vessel. LINE-1 and LINE-2 break up the descriptive data to print in a two line format.

**Year Built:** the calendar year the vessel was built or rebuilt.

**Rebuilt:** An asterisk specifies that the year given will be the year the vessel was rebuilt rather than the year built. Rebuilt status is a vessel modification or significant improvement that extends the working life of the vessel. This status is left to the discretion of the vessel company surveyed.

### Vessel Category Cross Reference List

Vessel Categories	VTCC Characteristics Code	ICST Code
<b>Self-Propelled</b>		
Dry Bulk Carrier	06	229
Containership	07	310
General Cargo Carrier	03, 04, 05, 08, 09 and 12	333, 334, 335 and 336
Specialised Carrier	10, 13, 14 and 15	321, 325 and 329
Tanker	20, 21, 22, 23 and 24	114, 120, 139 and 199
Pushboat	35	432
Tugboat	36	431
Passenger	11 and 16	351 and 359
Offshore Support Vessel	02	422
<b>Non-Self-Propelled</b>		
Dry Covered Barge	41 and 48	345
Dry Open Barge	40 and 47	344
Deck Barge	43	341
Lash / Seabee Barge	52	343
Other Dry Barge	42, 44, 49, 50, 90, and 99	349
Single Hull Tank Barge	70	141
Double Hull Tank Barge	71	142
Other Tank Barge	72, 73 and 74	143, 144 and 149

### Explanation of the International Classification of Ships by Type (ICST Codes)

114 Liquid Oil Tanker (Oil / Chemical)	333 General Cargo RO-RO / Container
120 Liquid Chemical Tanker	334 Other RO-RO Cargo (General Cargo)
139 Liquid Gas Carrier (Other)	335 General Cargo / Passenger
141 Liquid Tank Barge (Single Hull)	336 General Cargo / Container
142 Liquid Tank Barge (Double Hull)	344 Open Dry Cargo Barge
143 Liquid Tank Barge (Double Sided Only)	345 Dry Cargo Covered Barge
144 Liquid Tank Barge (Double Bottom Only)	341 Dry Cargo Deck Barge
149 Liquid Tank Barge (Other)	343 Dry Cargo Lash / Seabee Barge
199 Liquid Other Tanker	349 Dry Cargo Other Barge
229 Dry Bulk (Other) Carrier	351 Passenger (Cruise)
310 Containership (Specialised)	359 Passenger (Other)
321 Barge Carrier (Specialised)	422 Offshore Support Vessel
325 Vehicle Carrier (Specialised)	431 Tugboat
329 Other Carriers (Specialised)	432 Pushboat

## Explanation of Vessel Type, Construction and Characteristics (VTCC Code)

### Construction:

- |            |              |
|------------|--------------|
| A Steel    | D Fiberglass |
| B Wood     | E Other      |
| C Aluminum | F Unknown    |

### Type 1 Self-Propelled, Dry Cargo

#### Characteristics:

- |  |                                    |
|--|------------------------------------|
| 02 Crewboat / Supply / Utility Vessel            | 10 Vehicle Carrier                 |
| 03 General Cargo Freighter                       | 11 Passenger Carrier               |
| 04 Break Bulk / RO-RO Carrier                    | 12 Combination Passenger and Cargo |
| 05 RO-RO Vessel                                  | 13 Ferry                           |
| 06 Bulk Carrier                                  | 14 Railroad Car Ferry              |
| 07 Containership                                 | 15 Lash Vessel                     |
| 08 Partial Containership                         | 16 Excursion / Sightseeing Vessel  |
| 09 Container / Vehicle / Trailer (RO-RO) Carrier |                                    |

### Type 2 Self-Propelled, Tanker

#### Characteristics:

- |                                 |                       |
|---------------------------------|-----------------------|
| 20 Petroleum / Chemical Carrier | 23 Liquid Gas Carrier |
| 21 Chemical Carrier             | 24 Other Tanker       |
| 22 Liquid Bulk Tanker           |                       |

### Type 3 Towboat

#### Characteristics:

- |             |            |
|-------------|------------|
| 35 Pushboat | 36 Tugboat |
|-------------|------------|

### Type 4 Non-Self-Propelled, Dry Cargo

#### Characteristics:

- |                                  |                            |
|----------------------------------|----------------------------|
| 40 Open Hopper Barge             | 48 Covered Dry Cargo Barge |
| 41 Covered Hopper Barge          | 49 RO-RO Barge             |
| 42 Carfloat (Railroad Car Barge) | 50 Container Barge         |
| 43 Flat / Deck Barge             | 52 Lash / Seabee Barge     |
| 44 Pontoon Barge                 | 90 Convertible Barge       |
| 47 Open Dry Cargo Barge          | 99 Other                   |

### Type 5 Non-Self-Propelled, Tanker

#### Characteristics:

- |   |  |
|---|--|
| 70 Liquid Cargo Barge (Single Hull)       | 73 Liquid Cargo Barge (Double Bottom Only) |
| 71 Liquid Cargo Barge (Double Hull)       | 74 Other Liquid Cargo Barge, Not           |
| 72 Liquid Cargo Barge (Double Sided Only) | Elsewhere Included                         |

### Type 6 Other

#### Characteristics:

- |              |
|--------------|
| 01 Undefined |
|--------------|



## Vessel Category Cross Reference List

International Classification of Ships by Type (ICST)	Vessel Type, Construction and Characteristics (VTCC)
114 Liquid Oil Tanker (Oil / Chemical)	20 Petroleum / Chemical Carrier
120 Liquid Chemical Tanker	21 Chemical Carrier
139 Liquid Gas Carrier (Other)	23 Liquid Gas Carrier
141 Liquid Tank Barge (Single Hull)	70 Liquid Cargo Barge (Single Hull)
142 Liquid Tank Barge (Double Hull)	71 Liquid Cargo Barge (Double Hull)
143 Liquid Tank Barge (Double Sided Only)	72 Liquid Cargo Barge (Double Sided Only)
144 Liquid Tank Barge (Double Bottom Only)	73 Liquid Cargo Barge (Double Bottom Only)
149 Liquid Tank Barge (Other)	74 Liquid Cargo Barge, Not Elsewhere Included
199 Liquid Other Tanker	22 Liquid Bulk Tanker
	24 Other Tanker
229 Dry Bulk (Other) Carrier	06 Bulk Carrier
310 Containership (Specialised)	07 Containership
321 Barge Carrier (Specialised)	15 Lash Vessel
325 Vehicle Carrier (Specialised)	10 Vehicle Carrier
329 Other Carriers (Specialised)	13 Ferry
	14 Railroad Car Ferry
333 General Cargo RO-RO / Container	09 Container / Vehicle / Trailer (RO-RO) Carrier
334 Other RO-RO Cargo (General Cargo)	04 Break Bulk / RO-RO Carrier
	05 RO-RO Vessel
335 General Cargo / Passenger	03 General Cargo Freighter
	12 Combination Passenger and Cargo
336 General Cargo / Container	08 Partial Containership
341 Dry Cargo Deck Barge	43 Flat / Deck Barge
343 Dry Cargo Lash / Seabee Barge	52 Lash / Seabee Barge
344 Open Dry Cargo Barge	40 Open Hopper Barge
	47 Open Dry Cargo Barge
345 Dry Cargo Covered Barge	41 Covered Hopper Barge
	48 Covered Dry Cargo Barge
349 Dry Cargo Other Barge	42 Carfloat (Railroad Car Barge)
	44 Pontoon Barge
	49 RO-RO Barge
	50 Container Barge
	90 Convertible Barge
	99 Other
351 Passenger (Cruise)	11 Passenger Carrier
359 Passenger (Other)	16 Excursion / Sightseeing Vessel
422 Offshore Support Vessel	02 Crewboat / Supply / Utility Vessel
431 Tugboat	36 Tugboat
432 Pushboat	35 Pushboat

## Selected Inland Commercial Vessels

These vessels are commonly used in the transport of commodities on the inland waterway system. This is not intended to be a complete description of all merchant vessels using the inland waterway system

### Self-Propelled

**Tugboat:** Self-propelled vessel with a V - shaped bow designed for the towing (and pushing) of ships or other floating structures such as barges in ports/harbors.

**Towboat/Push Boat:** Self-propelled vessel designed to tow/push barges and pontoons. The hull is usually rectangular in plan and has little freeboard. A pair of knees of ample strength and height engage barges of various depths to maneuver the tow.

### Non-Self-Propelled

**Barge:** A category of vessel designed as non-self-propelled units for the carriage of cargo on the weather deck or in holds or in tanks. The units are towed/pushed by another ship (tug or pusher vessel).

**Dry Cargo Barge:** Non-self-propelled vessel, usually flat bottomed and rectangular in structure with cargo space below deck. The cargo space may be covered or uncovered. Usually used to transport bulk commodities on rivers and canals. The industry commonly refers to these barges as open/covered hopper barges<sup>1</sup>.

**Deck Barge:** Non-self-propelled vessel, usually flat bottomed and rectangular in structure, having an intact deck for the carriage of bulk materials. Commonly referred to as a scow, lighter or hoy.

**Lash/Seabee Barge:** A barge, usually flat-bottomed and rectangular in structure to be lightered aboard a mother ship.

**Tank Barge:** Non-self-propelled vessel constructed and arranged for the carriage of liquid cargoes in tanks integral to the hull or independent of the hull. Pumping arrangements may be provided on board or left to shore equipment. Typical cargoes would include petroleum and other liquids.

**Single Hull Tank Barge:** A tank barge with the sides and the bottom being single hull.

**Double Hull Tank Barge:** A tank barge with the sides and the bottom being double hull.

**Double Sided Tank Barge:** A tank barge with the sides being double hull and the bottom being single hull.

**Double Bottom Tank Barge:** A tank barge with the sides being single hull and the bottom being double hull.

1. Most companies responding to the Transportation Annual Survey do not classify vessels according to the textbook definition of a hopper barge, which describes a barge designed for the carriage of dredged material or other waste material in hoppers for subsequent discharge elsewhere through the bottom of the barge by means of doors/valves or by means of a split hull separation.

# **Volume 1**

## **National Summaries**



TABLE 1: SUMMARY OF THE UNITED STATES FLAG PASSENGER AND CARGO VESSELS  
OPERATING OR AVAILABLE FOR OPERATION ON DECEMBER 31, 1998\* BY REGION

Type of Vessels	Total 1998	Atlantic, Gulf and Pacific Coasts	Mississippi River System and the Gulf Intracoastal Waterway	Great Lakes System
<b>Self-Propelled</b>				
Dry Cargo and/or Passenger, Offshore Support				
Number of Vessels	2,938	1,285	1,455	198
Horsepower	7,791,448	4,906,672	2,337,139	547,637
Cargo Capacity (short tons)	6,371,425	3,886,533	558,265	1,926,627
Number of Passengers (capacity)	299,064	155,371	111,587	32,106
Vehicular Ferries and Railroad Cars				
Number of Vessels	213	187	8	18
Horsepower	439,952	401,662	15,440	22,850
Number of Passengers (capacity)	120,906	114,145	3,265	3,496
Tankers				
Number of Vessels	135	127	4	4
Horsepower	1,626,964	1,606,764	11,400	8,800
Cargo Capacity (short tons)	6,598,742	6,558,409	20,399	19,934
Towboats				
Number of Vessels	5,237	1,733	3,355	149
Horsepower	9,432,131	3,490,857	5,758,745	182,529
Total Self-Propelled				
Number of Vessels	8,523	3,332	4,822	369
Horsepower	19,290,495	10,405,955	8,122,724	761,816
Cargo Capacity (short tons)	12,970,167	10,444,942	578,664	1,946,561
Number of Passengers (capacity)	419,970	269,516	114,852	35,602
<b>Non-Self-Propelled</b>				
Barges, Dry Cargo				
Number of Vessels	29,526	3,130	26,169	227
Cargo Capacity (short tons)	44,718,691	4,824,531	39,451,151	443,009
Number of Passengers (capacity)	3,234	20	3,159	55
Barges, Tanker				
Number of Vessels	3,952	633	3,298	21
Cargo Capacity (short tons)	11,281,261	3,762,570	7,447,782	70,909
Railroad Car Floats				
Number of Vessels	31	24	4	3
Cargo Capacity (short tons)	55,021	53,975	1,046	0
Total Non-Self-Propelled				
Number of Vessels	33,509	3,787	29,471	251
Cargo Capacity (short tons)	56,054,973	8,641,076	46,899,979	513,918
Number of Passengers (capacity)	3,234	20	3,159	55
<b>Grand Total Self and Non-Self-Propelled</b>				
Number of Vessels	42,032	7,119	34,293	620
Horsepower	19,290,495	10,405,955	8,122,724	761,316
Cargo Capacity (short tons)	69,025,140	19,086,018	47,478,643	2,460,479
Number of Passengers (capacity)	423,204	269,536	118,011	35,657

Exclusive of fishing and excursion vessels, general ferries and dredges, derricks, etc., used in construction work.

\* Includes updates through the publication date of December 1999.

FIGURE 1-1: SUMMARY OF THE UNITED STATES VESSEL INVENTORY  
BY REGION FOR 1998

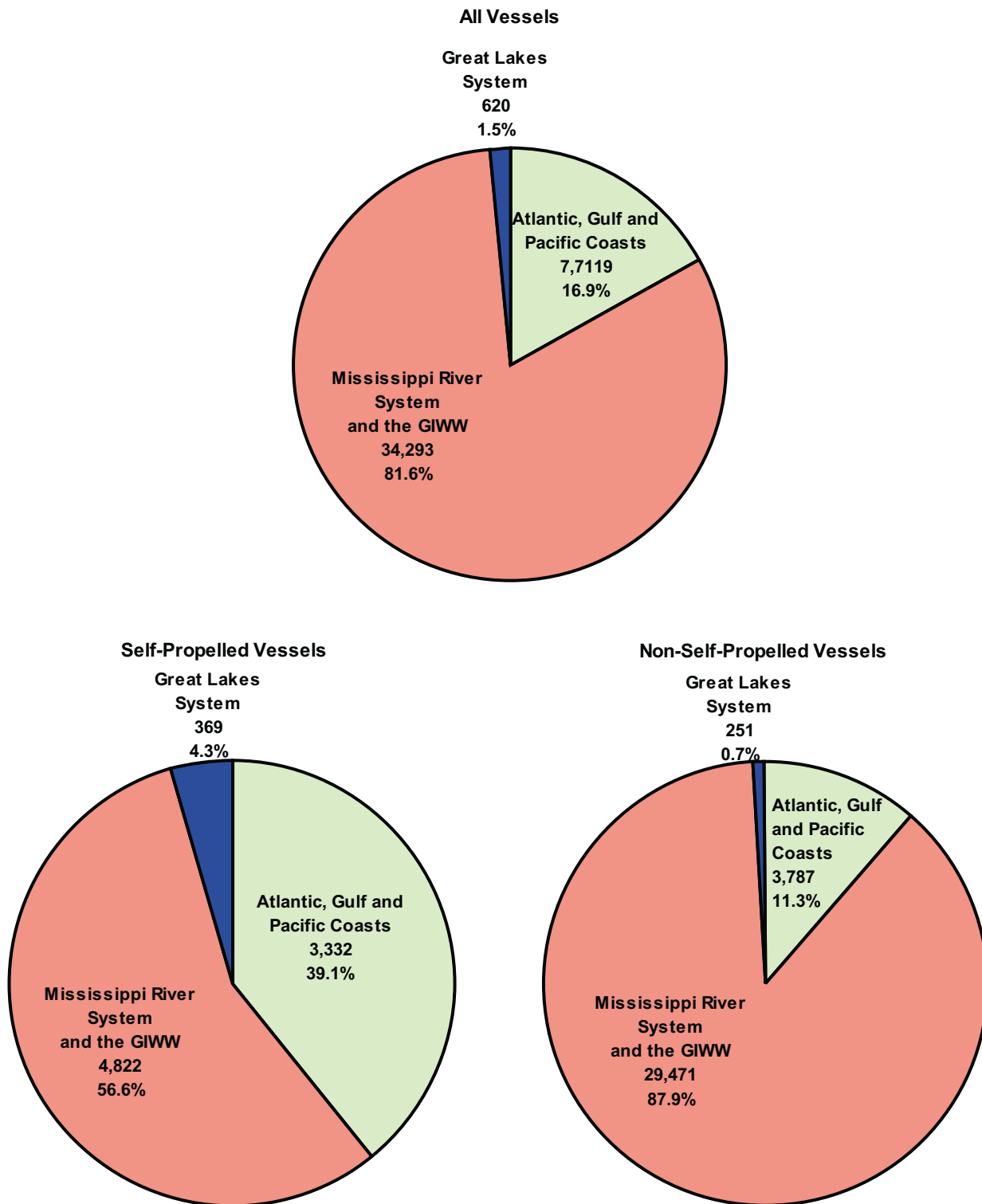
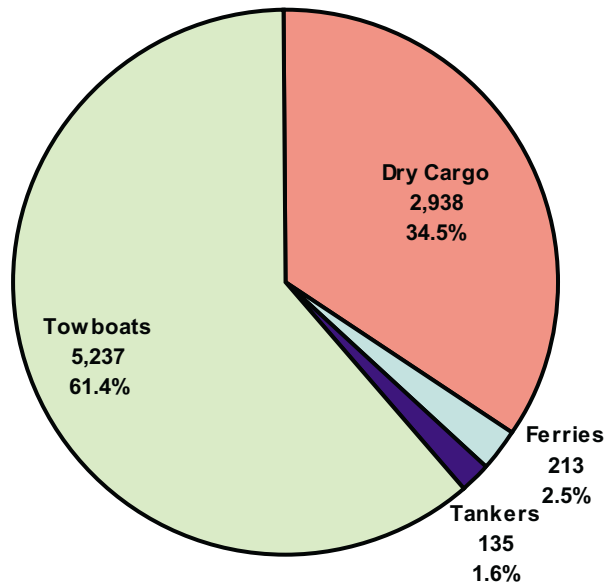


FIGURE 1-2: SUMMARY OF THE UNITED STATES VESSEL INVENTORY  
BY TYPE OF VESSEL FOR 1998

### Self-Propelled Vessels



### Non-Self-Propelled Vessels

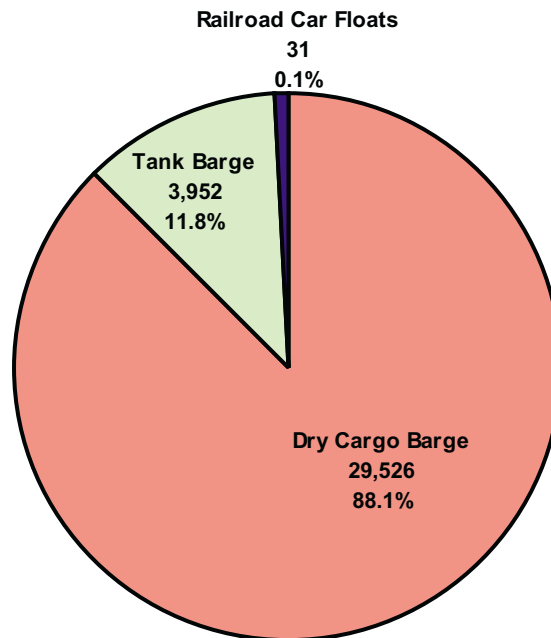


TABLE 2: SUMMARY OF THE UNITED STATES FLAG PASSENGER AND CARGO VESSELS<sup>1</sup>  
OPERATING OR AVAILABLE FOR OPERATION BY YEAR<sup>2</sup>

Type of Vessels	1980	1985	1990	1995	1997	1998
<b>Self-Propelled</b>						
Dry Cargo and/or Passenger, Offshore Support						
Number of Vessels	2,036	2,236	2,678	2,804	2,905	2,938
Horsepower	8,589,911	7,191,450	7,630,222	7,363,831	7,631,605	7,791,448
Cargo Capacity (short tons)	8,011,587	6,601,757	7,147,054	6,484,707	6,685,719	6,371,425
Number of Passengers (capacity)	143,255	153,347	215,204	275,353	305,378	299,064
Vehicular Ferries and Railroad Cars						
Number of Vessels	67	100	135	172	183	213
Horsepower	146,095	276,582	303,350	369,282	403,642	439,952
Number of Passengers (capacity)	NA	NA	82,100	100,309	106,403	120,906
Tankers						
Number of Vessels	330	232	213	178	147	135
Horsepower	4,161,044	3,281,912	2,820,207	2,219,297	1,842,298	1,626,964
Cargo Capacity (short tons)	15,894,753	14,591,672	12,681,957	9,298,692	7,476,020	6,598,742
Towboats						
Number of Vessels	4,693	4,954	5,210	5,127	5,173	5,237
Horsepower	7,146,576	8,030,407	8,709,914	9,107,738	9,309,496	9,432,131
Total Self-Propelled						
Number of Vessels	7,126	7,522	8,236	8,281	8,408	8,523
Horsepower	20,043,626	18,780,351	19,463,693	19,060,148	19,187,041	19,290,495
Cargo Capacity (short tons)	23,906,340	21,193,429	19,829,011	15,783,399	14,161,739	12,970,167
Number of Passengers (capacity)	143,255	153,347	297,304	375,662	411,781	419,970
<b>Non-Self-Propelled</b>						
Barges, Dry Cargo						
Number of Vessels	27,426	29,287	27,170	27,342	29,006	29,526
Cargo Capacity (short tons)	34,486,851	38,633,297	38,189,490	39,971,443	43,710,093	44,718,691
Number of Passengers (capacity)	0	0	3,149	1,101	9,140	3,234
Barges, Tanker						
Number of Vessels	4,166	4,252	4,003	3,985	3,971	3,952
Cargo Capacity (short tons)	10,388,265	10,842,430	10,757,295	11,169,087	11,264,868	11,281,261
Railroad Car Floats						
Number of Vessels	70	58	36	33	34	31
Cargo Capacity (short tons)	NA	NA	119,235	113,729	99,838	55,021
Total Non-Self-Propelled						
Number of Vessels	31,662	33,597	31,209	31,360	33,011	33,509
Cargo Capacity (short tons)	44,875,116	49,475,727	49,066,020	51,254,259	55,074,799	56,054,973
Number of Passengers (capacity)	NA	NA	3,149	1,101	9,140	3,234
<b>Grand Total Self and Non-Self-Propelled</b>						
Number of Vessels	38,788	41,119	39,445	39,641	41,419	42,032
Horsepower	20,043,626	18,780,351	19,463,693	19,060,148	19,187,041	19,290,495
Cargo Capacity (short tons)	68,781,456	70,669,156	68,895,031	67,037,658	69,236,538	69,025,140
Number of Passengers (capacity)	143,255	153,347	300,453	376,763	420,921	423,204

1 Exclusive of fishing and excursion vessels, general ferries and dredges, derricks, etc., used in construction work.

2 Data not available (NA).



FIGURE 2: SUMMARY OF THE UNITED STATES VESSEL INVENTORY  
BY YEAR

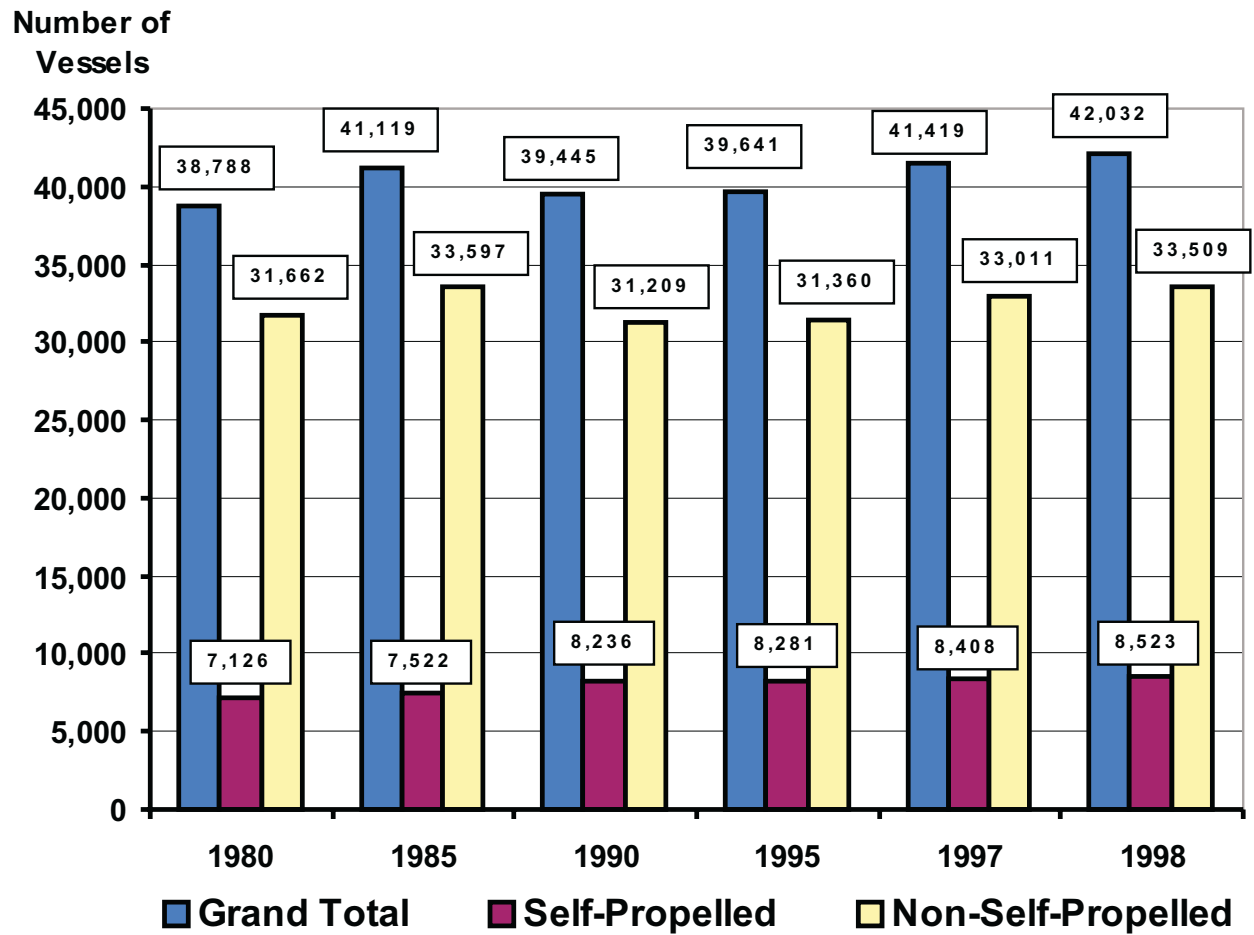


TABLE 3: SUMMARY OF THE UNITED STATES YEAR OF FLEET CONSTRUCTION<sup>1</sup>  
BY VESSEL TYPE FOR 1991 - 1998

Vessel Type	Total New Construction							
	1991	1992	1993	1994	1995	1996	1997	1998
<b>Vessels (total)<sup>2</sup></b>	<b>639</b>	<b>771</b>	<b>705</b>	<b>511</b>	<b>668</b>	<b>1,451</b>	<b>1,713</b>	<b>1,173</b>
<b>Self-Propelled (total)</b>	<b>58</b>	<b>50</b>	<b>46</b>	<b>52</b>	<b>71</b>	<b>81</b>	<b>83</b>	<b>124</b>
Dry Cargo (total)	2	5	9	6	6	4	8	13
Dry Bulk	0	0	0	0	0	0	0	0
Containership	0	1	0	0	0	0	0	0
General Cargo	2	3	5	2	3	2	5	5
Specialized	0	1	4	4	3	2	3	8
Passenger	15	12	13	20	18	22	15	20
Offshore Support	22	11	9	11	11	12	28	47
Tanker	1	3	0	1	0	1	4	3
Towboat	18	19	15	14	36	42	28	38
<b>Non-Self-Propelled (total)</b>	<b>581</b>	<b>721</b>	<b>659</b>	<b>459</b>	<b>597</b>	<b>1,370</b>	<b>1,630</b>	<b>1,049</b>
Dry Barge (total)	492	637	615	405	506	1,235	1,565	977
Dry Covered	97	184	232	218	345	397	1,031	516
Dry Open	274	243	213	114	100	682	367	375
Lash/Seabee	32	2	0	0	0	0	0	0
Deck	85	207	169	67	60	156	166	82
Other Dry <sup>3</sup>	4	1	1	6	1	0	1	4
Tank Barge <sup>4</sup> (total)	89	84	44	54	91	135	65	72
Single Hull	NA	NA	NA	2	0	11	1	5
Double Hull	NA	NA	NA	37	57	96	59	61
Other Tank <sup>5</sup>	NA	NA	NA	15	34	28	5	6

Vessel Type	Total Vessels Rebuilt							
	1991	1992	1993	1994	1995	1996	1997	1998
<b>Vessels (total)<sup>2</sup></b>	<b>8</b>	<b>3</b>	<b>5</b>	<b>9</b>	<b>7</b>	<b>12</b>	<b>4</b>	<b>15</b>
<b>Self-Propelled (total)</b>	<b>5</b>	<b>1</b>	<b>4</b>	<b>7</b>	<b>6</b>	<b>6</b>	<b>4</b>	<b>11</b>
Dry Cargo (total)	1	0	1	0	0	1	0	1
Dry Bulk	0	0	0	0	0	0	0	0
Containership	0	0	0	0	0	0	0	0
General Cargo	1	0	1	0	0	0	0	0
Specialized	0	0	0	0	0	1	0	1
Passenger	0	0	0	2	0	0	0	0
Offshore Support	0	0	0	1	4	3	2	0
Tanker	0	0	0	0	0	0	0	0
Towboat	4	1	3	4	2	2	2	10
<b>Non-Self-Propelled (total)</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>4</b>
Dry Barge (total)	3	1	1	2	1	5	0	4
Dry Covered	0	0	0	1	0	1	0	2
Dry Open	1	0	0	0	0	0	0	0
Lash/Seabee	0	0	0	0	0	0	0	0
Deck	0	0	1	1	1	3	0	2
Other Dry <sup>3</sup>	2	1	0	0	0	1	0	0
Tank Barge <sup>4</sup> (total)	0	1	0	0	0	1	0	0
Single Hull	NA	NA	NA	0	0	0	0	0
Double Hull	NA	NA	NA	0	0	1	0	0
Other Tank <sup>5</sup>	NA	NA	NA	0	0	0	0	0

1 The calendar year the vessel was built (new construction) or rebuilt. The rebuilt status is a vessel modification or significant improvement that extends the working life of the vessel, which is determined by the vessel company surveyed.

2 Total is greater than sum because of unclassified vessels; includes vessels available for operation.

3 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.

4 Single versus double hull classifications were not reported prior to 1994.

5 Includes tank barges that may be double sided only, double bottom only, or not elsewhere included.

FIGURE 3: SUMMARY OF THE UNITED STATES YEAR OF FLEET CONSTRUCTION BY VESSEL TYPE FOR 1991 - 1998 NEW CONSTRUCTION

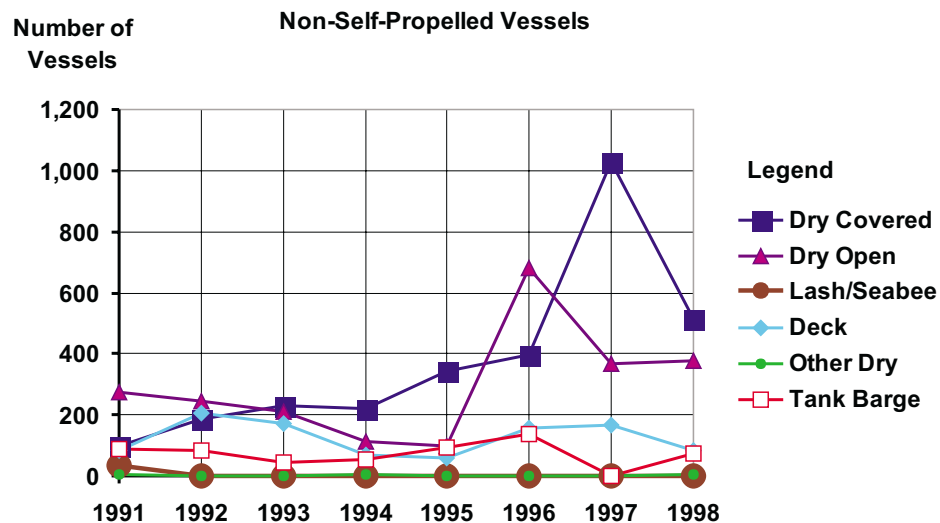
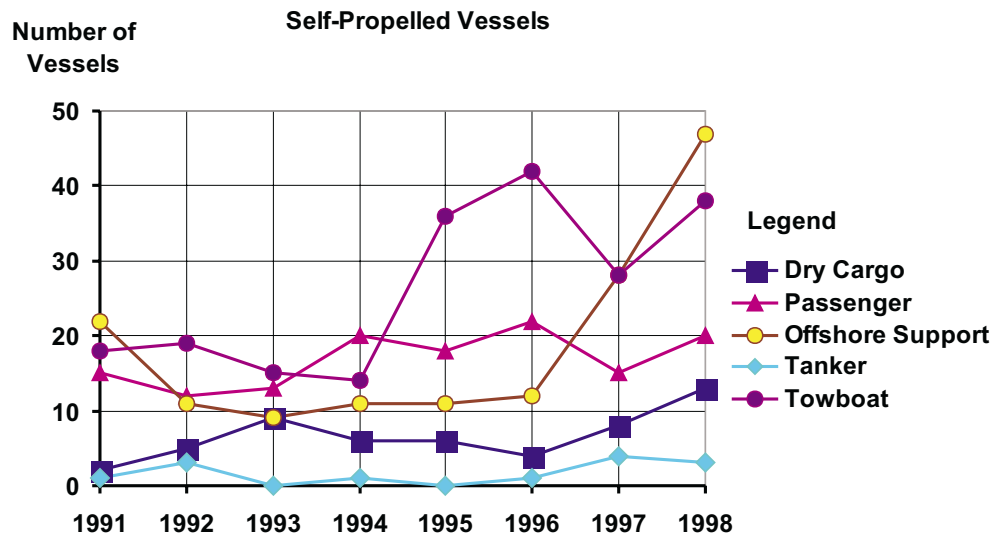
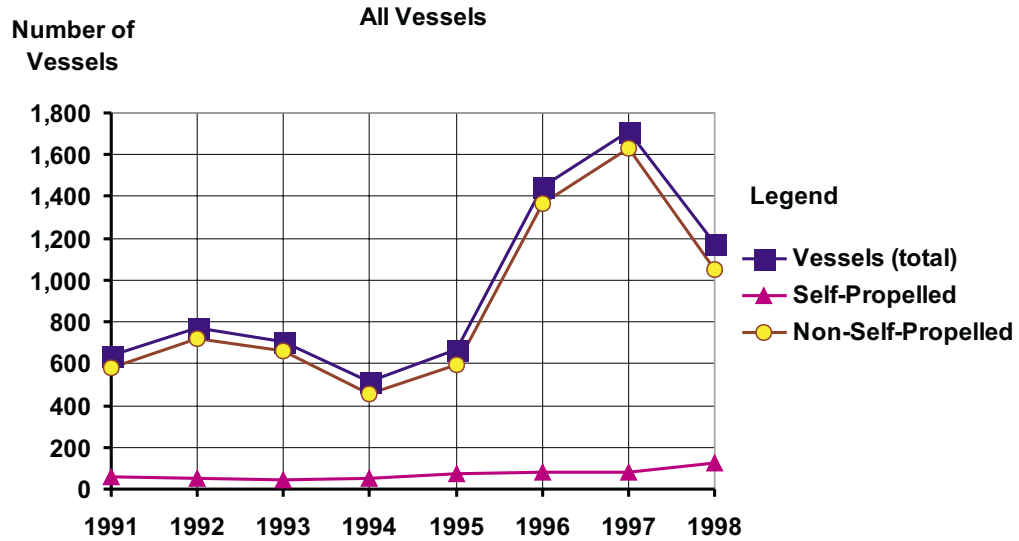


TABLE 4: SUMMARY OF THE UNITED STATES FLAG VESSELS  
BY VESSEL TYPE AND AGE FOR 1998<sup>1</sup>

Vessel Type	Number	Age <sup>2</sup>					
		<= 5	6 - 10	11 - 15	16 - 20	21 - 25	>25
<b>Vessels (total)<sup>3</sup></b>	<b>42,032</b>	<b>6,991</b>	<b>3,839</b>	<b>1,782</b>	<b>11,626</b>	<b>8,076</b>	<b>9,573</b>
<b>Self-Propelled (total)</b>	<b>8,523</b>	<b>629</b>	<b>455</b>	<b>597</b>	<b>2,170</b>	<b>1,404</b>	<b>3,257</b>
Dry Cargo (total)	714	56	55	105	179	88	230
Dry Bulk	67	0	1	7	19	16	24
Containership	77	4	12	19	22	7	13
General Cargo	353	21	17	47	111	43	113
Specialized	217	31	25	32	27	22	80
Passenger	1,011	150	168	166	129	106	292
Offshore Support	1,423	163	105	111	634	211	195
Tanker	135	12	3	19	31	22	48
Towboat	5,237	247	124	196	1,198	979	2,487
Unknown	3	1	0	0	0	0	2
<b>Non-Self-Propelled (total)</b>	<b>33,509</b>	<b>6,362</b>	<b>3,384</b>	<b>1,185</b>	<b>9,456</b>	<b>6,672</b>	<b>6,316</b>
Dry Barge (total)	29,557	5,877	3,117	1,113	8,591	5,909	4,817
Dry Covered	13,216	3,115	631	167	5,356	2,697	1,246
Dry Open	9,437	1,995	1,687	605	2,244	1,418	1,483
Lash/Seabee	1,823	0	361	39	38	1,295	90
Deck	4,916	751	429	285	916	478	1,945
Other Dry <sup>4</sup>	165	16	9	17	38	21	52
Tank Barge (total)	3,952	485	267	72	865	763	1,499
Single Hull	743	34	11	17	151	82	448
Double Hull <sup>5</sup>	2,581	395	250	48	574	578	736
Other Tank <sup>5</sup>	628	56	6	7	140	103	315

1 Survey date as of December 31, 1998; includes updates through publication date of December 1999.

2 Age (in years) is based upon the year the vessel was built or rebuilt, using calendar year 1998 as the base year.

3 Total is greater than sum because of 3 unclassified vessels and 145 with unknown age; figures include vessels available for operation.

4 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.

5 Includes tank barges that may be double sided only, double bottom only, or not elsewhere included.

FIGURE 4: SUMMARY OF THE UNITED STATES FLAG VESSELS  
BY VESSEL TYPE AND AGE FOR 1998

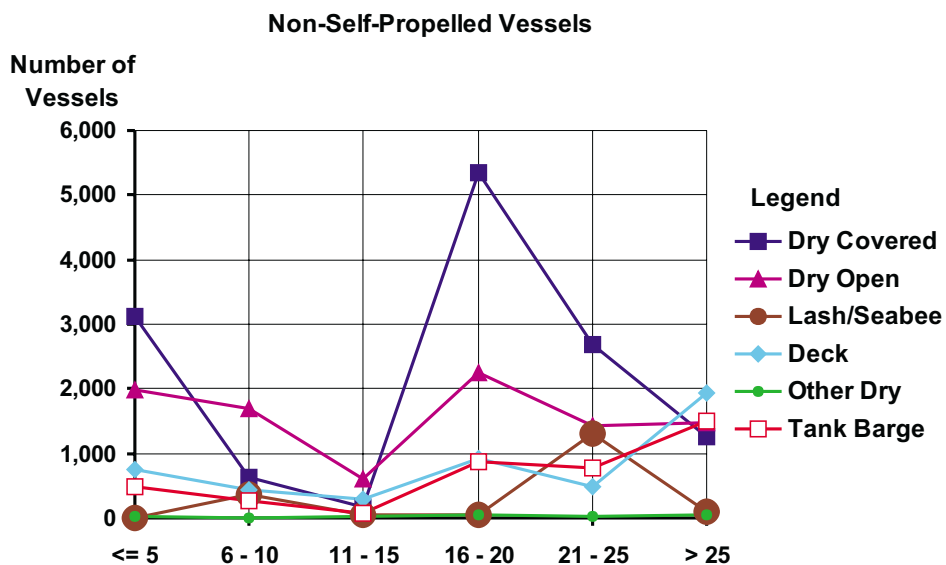
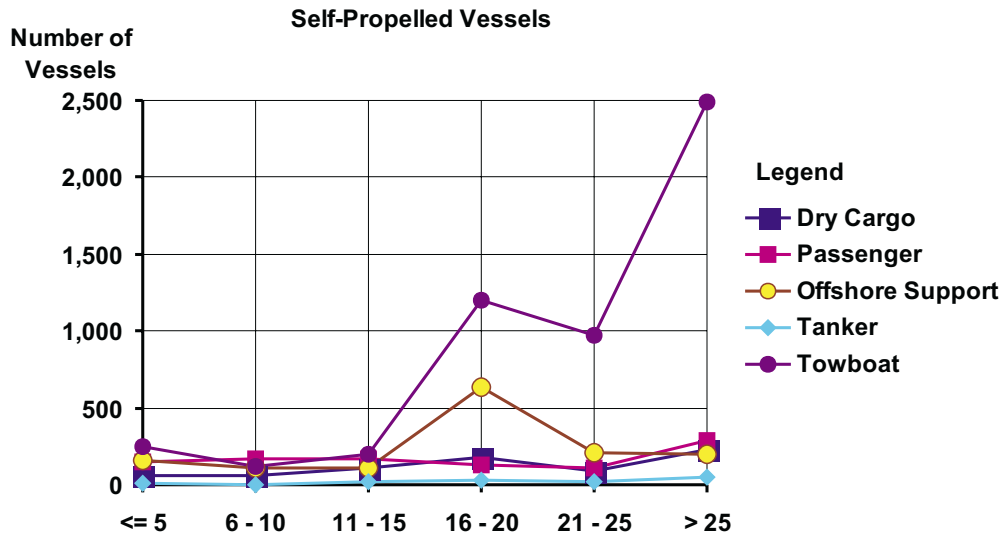
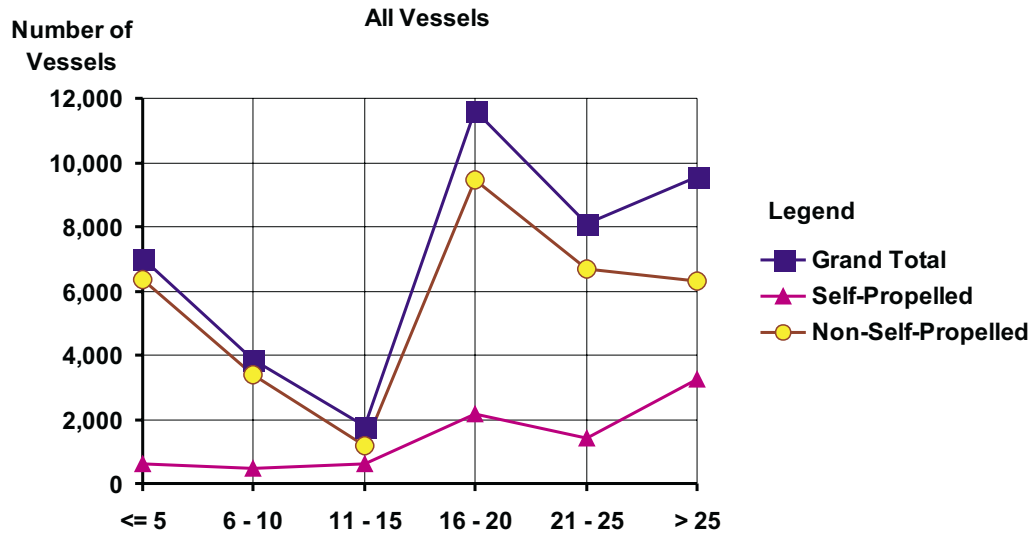


FIGURE 5: SUMMARY OF THE UNITED STATES TOWBOAT FLEET  
BY HORSEPOWER FOR 1998

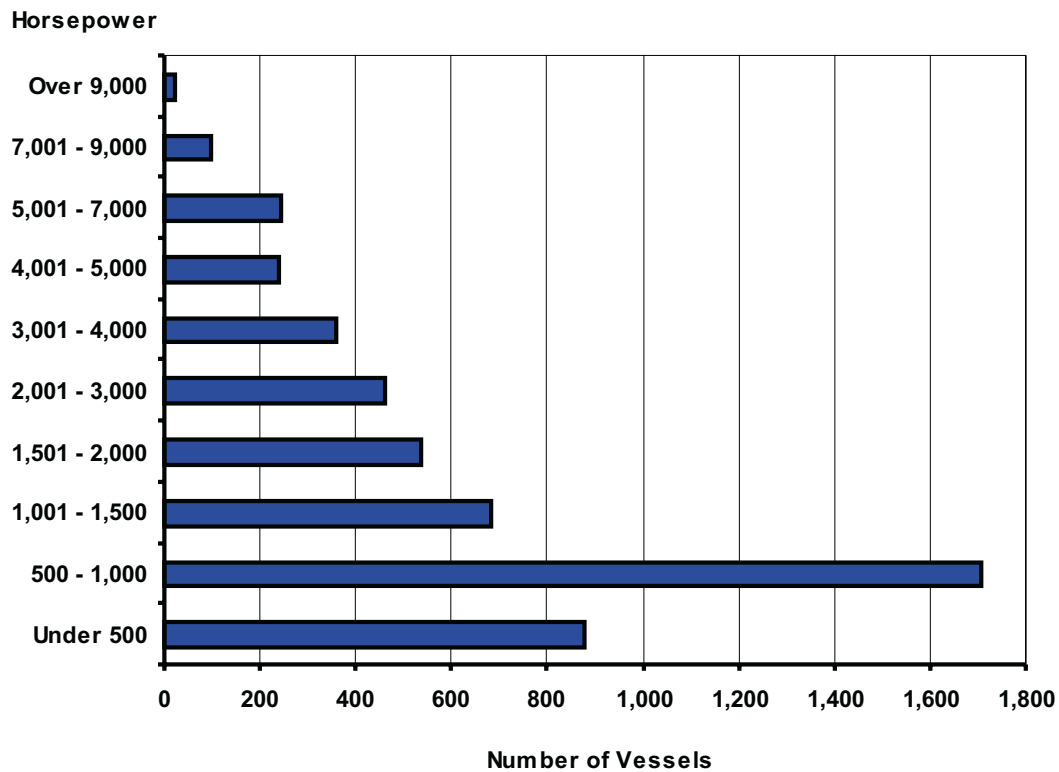


TABLE 5: SUMMARY OF THE UNITED STATES TOWBOAT FLEET  
BY HORSEPOWER FOR 1998

Vessel Type/ Horsepower Class	Vessels		Horsepower <sup>1</sup>			Average Age <sup>4</sup>
	Number <sup>2</sup>	% Total	Total	% Total	Average <sup>3</sup>	
Under 500	878	17	276,759	3	315	35
500 - 1,000	1,707	33	1,326,317	14	777	26
1,001 - 1,500	682	13	849,210	9	1,245	26
1,501 - 2,000	535	10	955,640	10	1,786	29
2,001 - 3,000	461	9	1,186,097	13	2,573	26
3,001 - 4,000	360	7	1,281,745	14	3,560	26
4,001 - 5,000	238	5	1,050,065	11	4,412	25
5,001 - 7,000	246	5	1,477,020	16	6,004	20
7,001 - 9,000	97	2	789,310	8	8,137	21
Over 9,000	20	0	239,968	3	11,998	19
<b>Total Towboat Fleet</b>	<b>5,237</b>	<b>100</b>	<b>9,432,131</b>	<b>100</b>	<b>1,801</b>	<b>28</b>

1 Horsepower rating is reported when the vessel was new or when the present engine was installed.

2 Total is greater than sum because of unknown horsepower.

3 Average is calculated from only those vessels with known horsepower and not the total number of vessels.

4 Age is based upon the year the vessel was built or rebuilt.

FIGURE 6: SUMMARY OF THE UNITED STATES TANK BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998

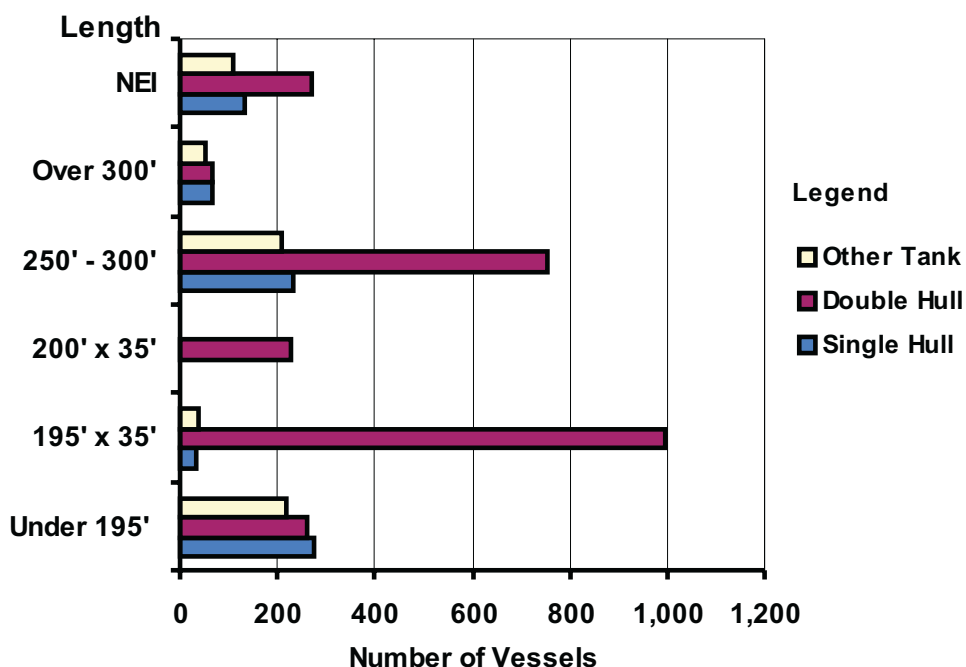


TABLE 6: SUMMARY OF THE UNITED STATES TANK BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998

Barge Size <sup>1</sup>	Total Barges		Cargo Capacity <sup>2</sup>			Average
	Number	% Total	Total	% Total	Average	Age <sup>3</sup>
Barge Type: Single Hull						
Under 195'	273	37	299,320	11	1,096	31
195' x 35'	32	4	45,365	2	1,418	36
200' x 35'	2	0	2,869	0	1,435	30
250' - 300'	234	31	911,986	34	3,897	25
Over 300'	67	9	1,064,872	40	115,894	22
NEI	135	18	351,708	13	2,605	33
Total Single Hull	743	(19)	2,676,120	(24)	3,602	29
Barge Type: Double Hull						
Under 195'	262	10	443,613	7	1,693	23
195' x 35'	998	39	1,615,812	24	1,619	20
200' x 35'	229	9	372,558	6	1,627	14
250' - 300'	754	29	2,754,746	42	3,654	16
Over 300'	67	3	840,991	13	12,552	13
NEI	271	10	605,214	9	2,233	24
Total Double Hull	2,581	(65)	6,632,934	(59)	2,570	19
Barge Type: Other Tank						
Under 195'	218	35	226,434	11	1,039	29
195' x 35'	40	6	56,254	3	1,406	25
200' x 35'	2	0	3,001	0	1,501	31
250' - 300'	207	33	761,314	39	3,678	26
Over 300'	52	8	668,867	34	12,863	22
NEI	109	17	256,337	13	2,352	27
Total Other Tank	628	(16)	1,972,207	(17)	3,140	27
Total Tank Barge Fleet	3,952	100	11,281,261	100	2,855	22

1 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. NEI (not elsewhere included) refers to the barges that do not fall within the dimensions stated.

2 Capacity specifies the full load capacity in short tons (2,000 lb). Average is calculated from only those vessels with known capacity and not the total number of vessels.

3 Age is based upon the year the vessel was built or rebuilt.

4 Includes tank barges that are double sided only, double bottom only, or not elsewhere included.

FIGURE 7: SUMMARY OF THE UNITED STATES SHALLOW DRAFT<sup>1</sup> TANK BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998

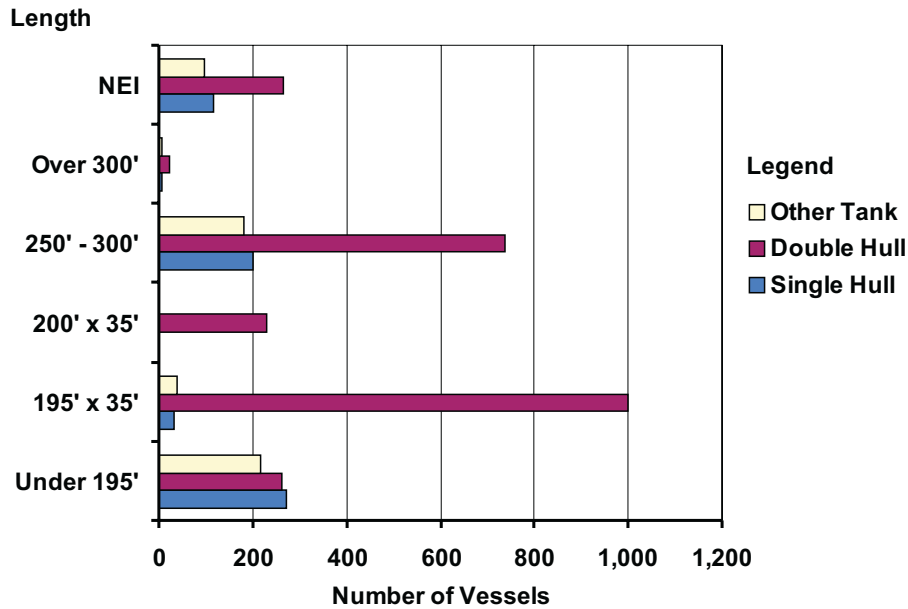


TABLE 7: SUMMARY OF THE UNITED STATES SHALLOW DRAFT<sup>1</sup> TANK BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998

Barge Size <sup>2</sup>	Total Barges		Cargo Capacity <sup>3</sup>			Average
	Number	% Total	Total	% Total	Average	Age <sup>4</sup>
<b>Barge Type: Single Hull</b>						
Under 195'	273	43	299,320	22	1,096	32
195' x 35'	32	5	45,365	3	1,418	36
200' x 35'	2	0	2,869	0	1,435	30
250' - 300'	199	32	674,298	50	3,388	25
Over 300'	7	1	29,888	2	4,270	22
NEI	118	19	293,412	22	2,487	33
<b>Total Single Hull</b>	<b>631</b>	<b>(17)</b>	<b>1,345,152</b>	<b>(16)</b>	<b>2,132</b>	<b>30</b>
<b>Barge Type: Double Hull</b>						
Under 195'	262	10	443,613	8	1,693	23
195' x 35'	998	40	1,615,812	28	1,619	21
200' x 35'	229	9	372,558	6	1,627	14
250' - 300'	738	29	2,661,602	46	3,607	16
Over 300'	22	1	83,733	1	3,806	21
NEI	266	11	592,281	10	2,227	25
<b>Total Double Hull</b>	<b>2,515</b>	<b>(68)</b>	<b>5,769,599</b>	<b>(70)</b>	<b>2,294</b>	<b>20</b>
<b>Barge Type: Other Tank<sup>5</sup></b>						
Under 195'	217	40	223,934	20	1,032	29
195' x 35'	40	7	56,254	5	1,406	25
200' x 35'	2	0	3,001	0	1,501	31
250' - 300'	181	33	600,889	54	3,320	26
Over 300'	7	1	20,755	2	2,965	22
NEI	97	18	206,974	19	2,134	28
<b>Total Other Tank</b>	<b>544</b>	<b>(14)</b>	<b>1,111,807</b>	<b>(14)</b>	<b>2,044</b>	<b>27</b>
<b>Total Shallow Draft Tank Barge Fleet</b>	<b>3,690</b>	<b>100</b>	<b>8,226,558</b>	<b>100</b>	<b>2,229</b>	<b>23</b>

1 Based on the loaded draft of the vessel; shallow draft is defined as less than or equal to 14 feet.

2 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. NEI (not elsewhere included) refers to the barges that do not fall within the dimensions stated.

3 Capacity specifies the full load capacity in short tons (2,000 lbs). Average is calculated from only those vessels with known capacity and not the total number of vessels.

4 Age is based upon the year the vessel was built or rebuilt.

5 Includes tank barges that are double sided only, double bottom only, or not elsewhere included.



FIGURE 8: SUMMARY OF THE UNITED STATES DEEP DRAFT<sup>1</sup> TANK BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998

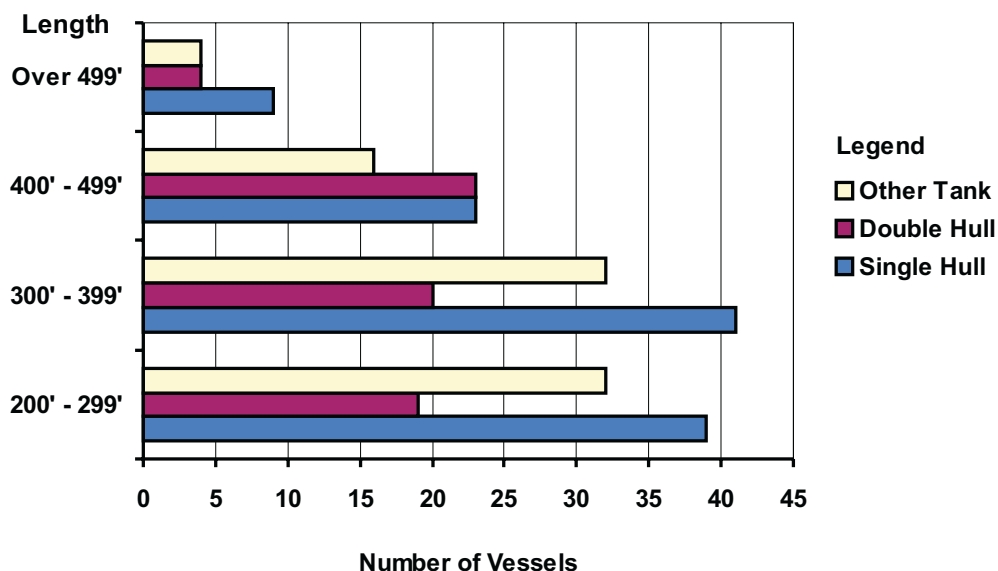


TABLE 8: SUMMARY OF THE UNITED STATES DEEP DRAFT<sup>1</sup> TANK BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998

Barge Size <sup>2</sup>	Total Barges		Cargo Capacity <sup>3</sup>			Average
	Number	% Total	Total	% Total	Average	Age <sup>4</sup>
Barge Type: Single Hull						
200' - 299'	39	35	191,809	14	4,918	26
300' - 399'	41	37	400,493	30	9,768	23
400' - 499'	23	21	475,826	36	20,688	19
Over 499'	9	8	262,840	20	29,204	25
Total Single Hull	112	(42)	1,330,968	(43)	11,884	23
Barge Type: Double Hull						
200' - 299'	19	29	94,073	11	4,951	26
300' - 399'	20	30	203,087	24	10,154	13
400' - 499'	23	35	384,949	45	16,737	9
Over 499'	4	6	181,226	21	45,307	13
Total Double Hull	66	(25)	863,335	(28)	13,081	15
Barge Type: Other Tank <sup>5</sup>						
Under 300'	32	38	152,033	18	4,751	27
300' - 399'	32	38	323,854	38	10,120	24
400' - 499'	16	19	246,417	29	15,401	19
Over 499'	4	5	138,096	16	34,524	22
Total Other Tank	84	(32)	860,400	(28)	10,243	24
Total Deep Draft						
Tank Barge Fleet	262	100	3,054,703	100	11,659	22

1 Based on the loaded draft of the vessel; deep draft is defined as greater than 14 feet.

2 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot.

3 Capacity specifies the full load capacity in short tons (2,000 lbs). Average is calculated from only those vessels with known capacity and not the total number of vessels.

4 Age is based upon the year the vessel was built or rebuilt.

5 Includes tank barges that are double sided only, double bottom only, or not elsewhere included.

TABLE 9: SUMMARY OF THE UNITED STATES DRY CARGO BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998

Barge Size <sup>1</sup>	Total Barges		Cargo Capacity <sup>2</sup>			Average
	Number	% Total	Total	% Total	Average	Age <sup>3</sup>
Barge Type: Dry Covered						
Under 175'	61	0	35,996	0	590	31
175' x 26'	5	0	4,630	0	926	46
195' x 26'	3	0	3,870	0	1,290	33
195' x 35'	5,916	45	9,103,109	40	1,539	19
200' x 35'	6,928	52	11,910,151	52	1,719	13
Over 200'	275	2	1,655,176	7	6,019	15
NEI	28	0	40,004	0	1,429	30
Total Dry Covered	13,216	(45)	22,752,936	(51)	1,722	16
Barge Type: Dry Open						
Under 175'	710	8	722,944	5	1,018	33
175' x 26'	740	8	697,129	5	942	20
195' x 26'	519	5	571,758	4	1,102	17
195' x 35'	4,913	52	7,556,386	52	1,538	15
200' x 35'	2,234	24	3,896,006	27	1,744	9
Over 200'	250	3	864,281	6	3,457	17
NEI	71	1	129,156	1	1,819	26
Total Dry Open	9,437	(32)	14,437,660	(32)	1,530	16
Barge Type: Deck						
Under 100'	321	7	72,670	1	226	30
100' - 110'	665	14	309,433	5	465	30
111' - 120'	762	16	390,947	6	513	20
121' - 140'	714	15	548,711	9	769	29
141' - 160'	293	6	312,235	5	1,066	28
161' - 180'	273	6	433,692	7	1,589	28
181' - 200'	1,492	30	2,456,834	39	1,647	15
201' - 220'	46	1	115,901	2	2,520	29
221' - 240'	85	2	268,167	4	3,155	28
241' - 260'	116	2	479,315	8	4,132	19
Over 260'	146	3	937,642	15	6,422	21
NEI	1	0	1,000	0	1,000	24
Total Deck	4,916	(17)	6,331,947	(14)	1,288	23
Barge Type: Lash / Seabee						
Lash 62' x 31'	1,816	100	741,015	97	408	21
Seabee 98' x 35'	5	0	19,225	3	3,845	25
Total Lash Seabee	1,823	(6)	762,240	(2)	418	21
Barge Type: Other Dry <sup>4</sup>						
Under 175'	79	48	72,192	15	914	24
175' x 26'	1	1	920	0	920	30
195' x 26'	0	0	0	0	0	0
195' x 35'	6	4	9,340	2	1,557	24
200' x 35'	0	0	0	0	0	0
Over 200'	73	44	392,430	80	5,376	19
NEI	6	4	14,269	3	2,378	18
Total Other Dry	165	(1)	489,151	(1)	2,965	21
Total Dry Cargo	29,557	100	44,773,712	100	1,515	17

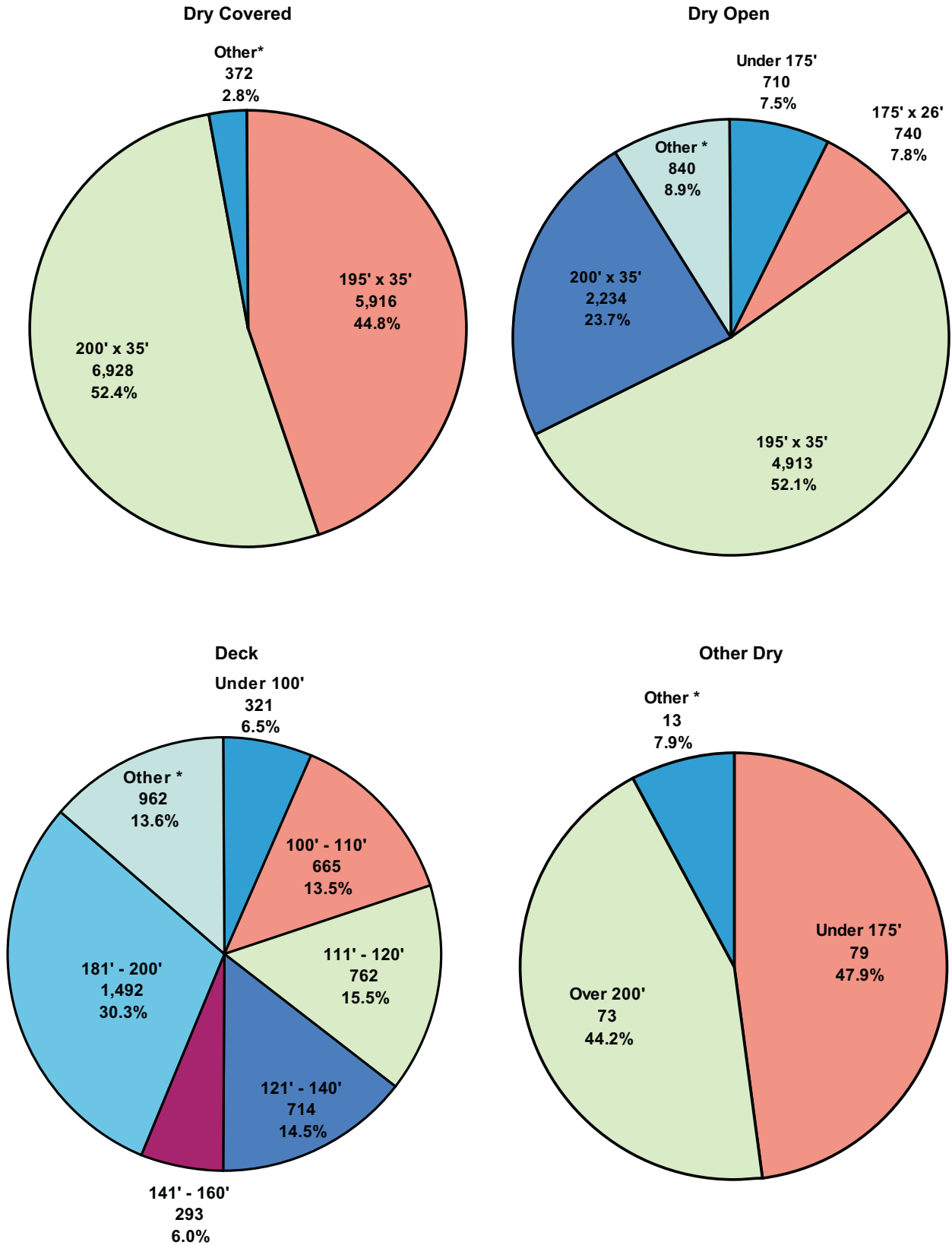
1 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. Total is greater than the sum because of unknown lengths. NEI (not elsewhere included) refers to the barges that do not fall within the dimensions stated.

2 Capacity specifies the full load capacity in short tons (2,000 lbs). Average is calculated from only those vessels with known capacity and not the total number of vessels.

3 Age is based upon the year the vessel was built or rebuilt.

4 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.

FIGURE 9: SUMMARY OF THE UNITED STATES DRY CARGO BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998



\* Other size category represents the combined number of vessels for size groups with less than 5.5% of the total for the barge type.

TABLE 10: SUMMARY OF THE UNITED STATES SHALLOW DRAFT<sup>1</sup> DRY CARGO BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998

Barge Size <sup>2</sup>	Total Barges		Cargo Capacity <sup>3</sup>			Average
	Number	% Total	Total	% Total	Average	Age <sup>4</sup>
Barge Type: Dry Covered						
Under 175'	61	0	35,996	0	590	31
175' x 26'	5	0	4,630	0	926	46
195' x 26'	3	0	3,870	0	1,290	33
195' x 35'	5,916	45	9,103,109	42	1,539	19
200' x 35'	6,927	53	11,907,851	55	1,719	13
Over 200'	184	1	422,999	2	2,299	12
NEI	28	0	40,004	0	1,429	30
Total Dry Covered	13,124	(45)	21,518,459	(51)	1,640	16
Barge Type: Dry Open						
Under 175'	682	7	657,469	5	964	32
175' x 26'	740	8	697,129	5	942	20
195' x 26'	519	6	571,758	4	1,102	17
195' x 35'	4,913	52	7,556,386	54	1,538	15
200' x 35'	2,234	24	3,896,006	28	1,744	9
Over 200'	216	2	628,082	4	2,908	17
NEI	63	1	109,474	1	1,738	25
Total Dry Open	9,367	(32)	14,116,304	(33)	1,507	16
Barge Type: Deck						
Under 100'	321	7	72,670	1	226	30
100' - 110'	664	14	309,433	6	466	30
111' - 120'	760	16	390,947	7	514	20
121' - 140'	714	15	548,711	10	769	29
141' - 160'	293	6	312,235	6	1,066	28
161' - 180'	267	6	420,675	8	1,576	28
181' - 200'	1,489	31	2,449,526	44	1,645	15
201' - 220'	44	1	110,002	2	2,500	28
221' - 240'	75	2	219,539	4	2,927	29
241' - 260'	100	2	410,945	7	4,109	19
Over 260'	84	2	324,747	6	3,866	22
NEI	1	0	1,000	0	1,000	24
Total Deck	4,812	(16)	5,570,430	(13)	1,158	23
Barge Type: Lash / Seabee						
Lash 62' x 31'	1,816	100	741,015	97	408	21
Seabee 98' x 35'	5	0	19,225	3	3,845	25
Total Lash Seabee	1,823	(6)	762,240	(2)	418	21
Barge Type: Other Dry <sup>5</sup>						
Under 175'	79	58	72,192	25	914	24
175' x 26'	1	1	920	0	920	30
195' x 26'	0	0	0	0	0	0
195' x 35'	6	4	9,340	3	1,557	24
200' x 35'	0	0	0	0	0	0
Over 200'	46	34	195,434	68	4,249	20
NEI	5	4	9,628	3	1,926	21
Total Other Dry	137	(1)	287,514	(1)	2,099	22
Total Dry Cargo	29,263	100	42,254,947	100	1,444	17

1 Based on the loaded draft of the vessel; shallow draft is defined as less than or equal to 14 feet.

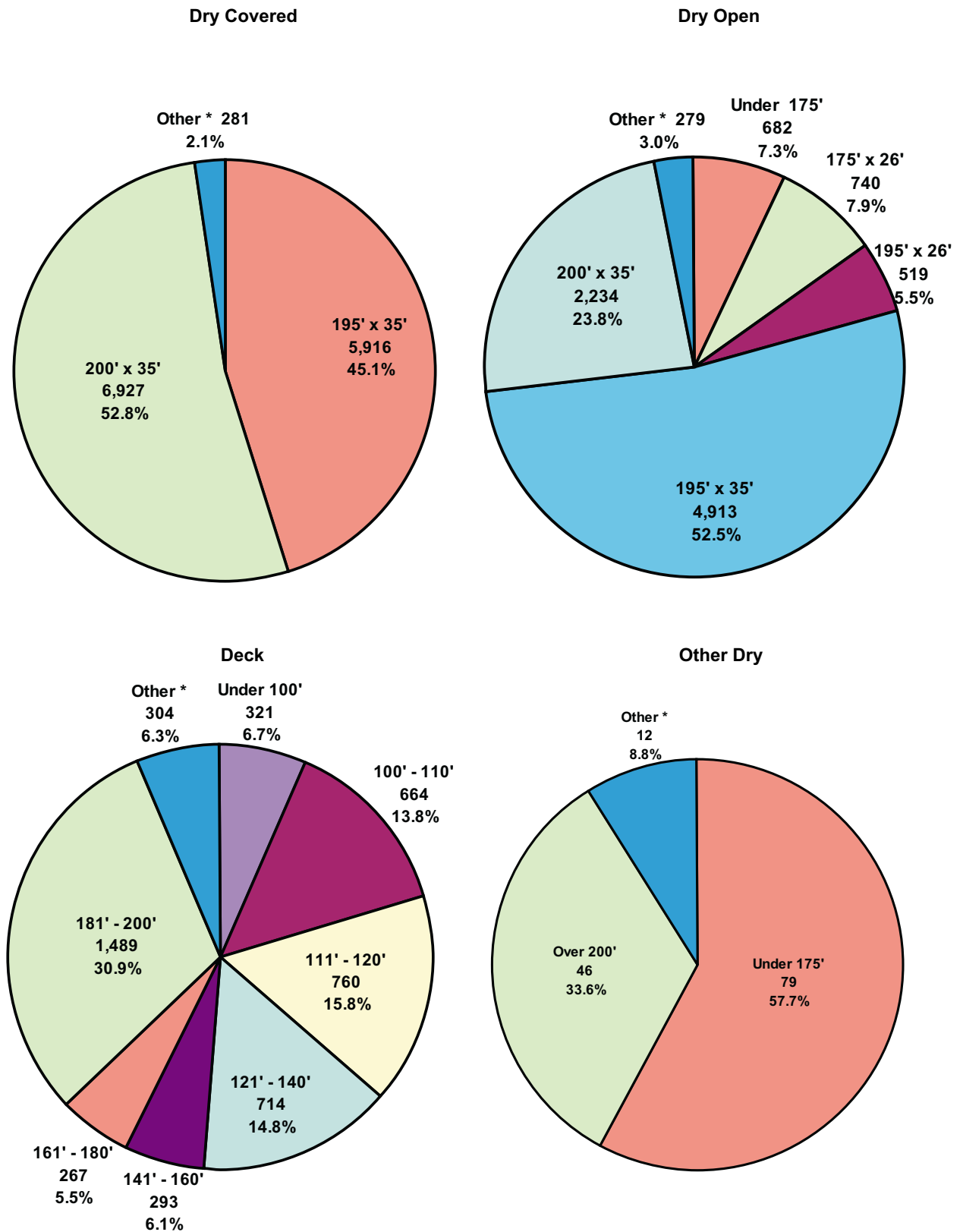
2 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. Total is greater than the sum because of unknown lengths. NEI (not elsewhere included) refers to the barges that do not fall within the dimensions stated.

3 Capacity specifies the full load capacity in short tons (2,000 lbs). Average is calculated from only those vessels with known capacity and not the total number of vessels.

4 Age is based upon the year the vessel was built or rebuilt.

5 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.

FIGURE 10: SUMMARY OF THE UNITED STATES SHALLOW DRAFT DRY CARGO BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998



\* Other size category represents the combined number of vessels for size groups with less than 5.5% of the total for the barge type.

TABLE 11: SUMMARY OF THE UNITED STATES DEEP DRAFT<sup>1</sup> DRY CARGO BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998

Barge Size <sup>2</sup>	Total Barges		Cargo Capacity <sup>3</sup>			Age <sup>4</sup>
	Number	% Total	Total	% Total	Average	
Barge Type: Dry Covered						
200' - 299'	31	35	134,830	11	4,349	20
300' - 399'	23	25	225,180	18	9,790	19
400' - 499'	24	26	430,642	35	17,943	26
Over 499'	14	15	443,825	36	31,702	18
Total Dry Covered	92	(31)	1,234,477	(49)	13,418	21
Barge Type: Dry Open						
Under 200'	33	47	76,157	24	2,308	44
200' - 299'	27	39	144,599	45	5,356	21
300' - 399'	9	13	77,600	24	8,622	16
Over 399'	1	1	23,000	7	23,000	28
Total Dry Open	70	(24)	321,356	(13)	4,591	31
Barge Type: Deck						
Under 200'	10	10	20,325	3	2,033	33
200' - 299'	48	48	257,438	34	5,363	19
300' - 399'	24	24	215,075	28	8,961	18
Over 399'	18	18	263,279	35	14,627	22
Total Deck	101	(34)	761,517	(30)	7,540	20
Barge Type: Other Dry <sup>5</sup>						
200' - 299'	4	15	17,792	9	4,448	20
300' - 399'	15	56	87,720	45	5,848	16
400' - 499'	8	30	91,484	46	11,436	18
Over 499'	0	0	0	0	0	0
Total Other Dry	27	9	196,996	980	7,296	17
Total Dry Cargo	290	100	2,514,346	100	8,670	23

1 Based on the loaded draft of the vessel; deep draft is defined as greater than 14 feet.

2 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. Total is greater than the sum because of unknown dimensions.

3 Capacity specifies the full load capacity in short tons (2,000 lbs). Average is calculated from only those vessels with known capacity and not the total number of vessels.

4 Age is based upon the year the vessel was built or rebuilt.

5 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.

FIGURE 11: SUMMARY OF THE UNITED STATES DEEP DRAFT DRY CARGO BARGE FLEET  
BY BARGE TYPE AND SIZE FOR 1998

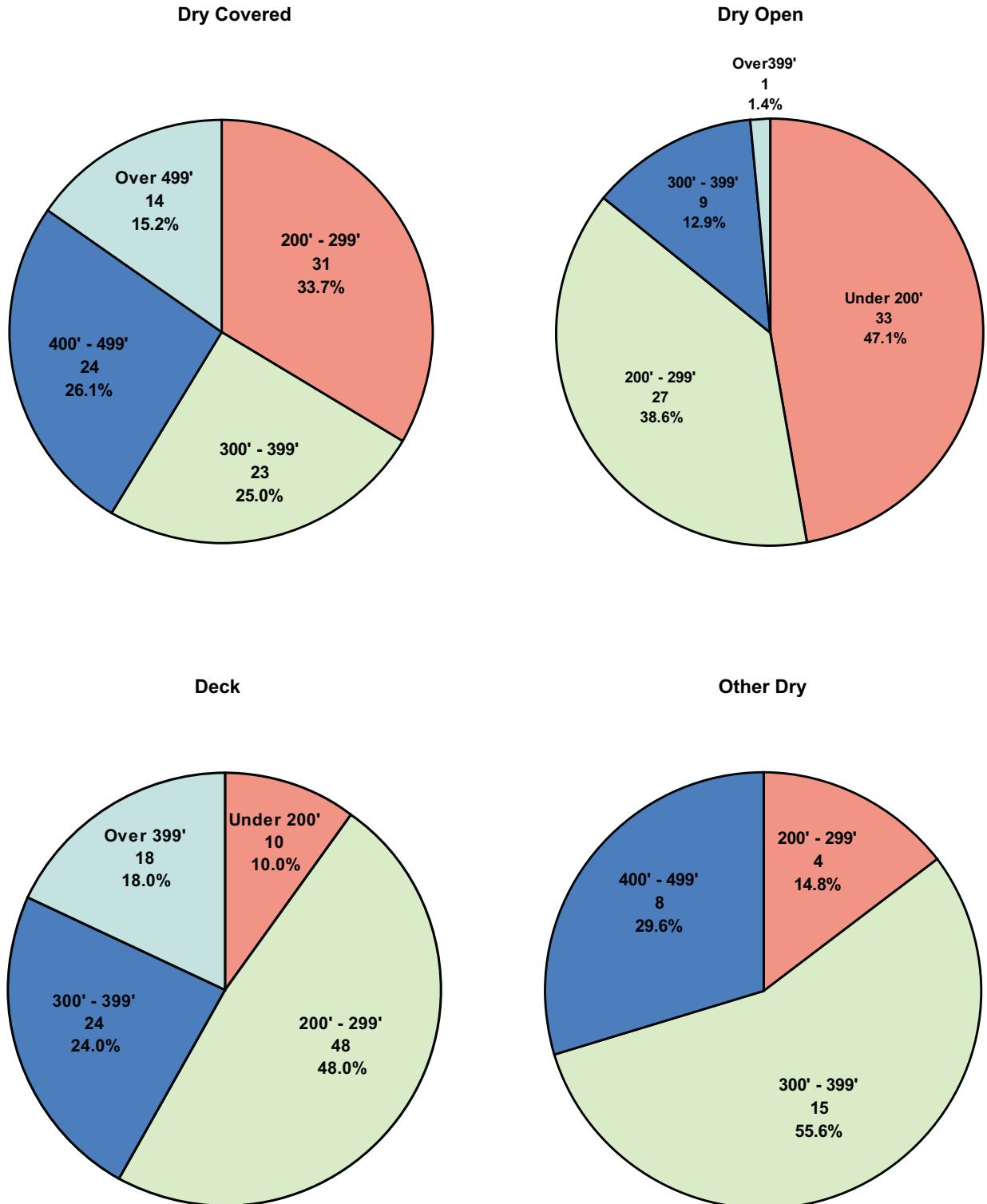


FIGURE 12: SUMMARY OF THE UNITED STATES SHALLOW AND DEEP DRAFT<sup>1</sup> VESSELS  
BY VESSEL TYPE FOR 1998

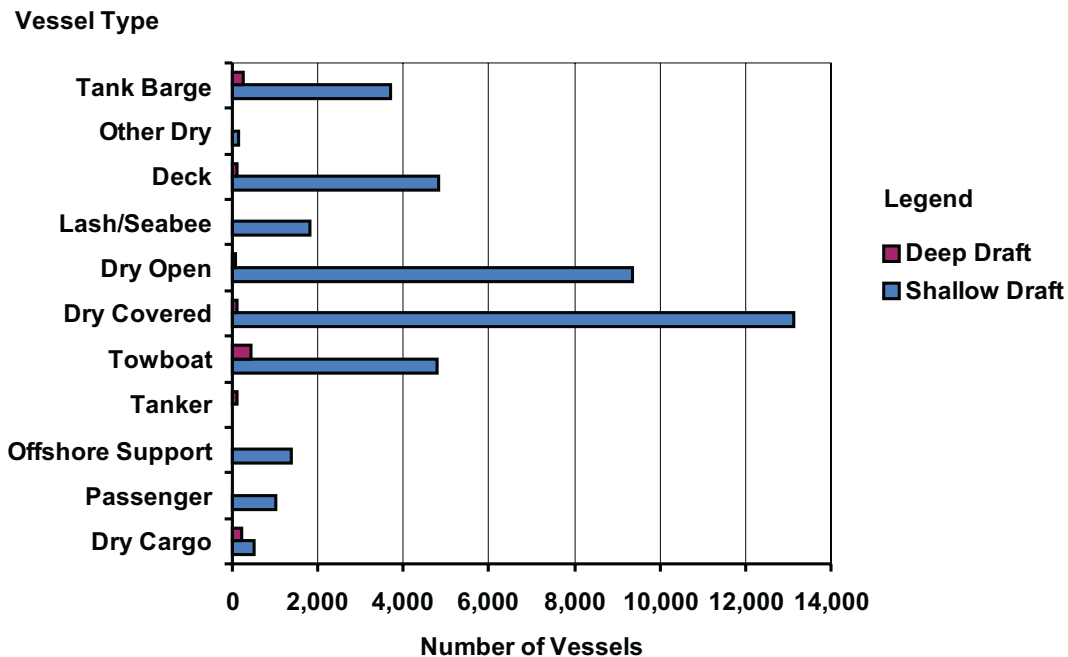


TABLE 12: SUMMARY OF THE UNITED STATES SHALLOW AND DEEP DRAFT VESSELS  
BY VESSEL TYPE FOR 1998

Vessel Type	Shallow Draft Vessels				Deep Draft Vessels			
	Number	% Total of Type	Average Draft	Average Age	Number	% Total of Type	Average Draft	Average Age
<b>Vessels (total)<sup>2</sup></b>	<b>40,665</b>	<b>97</b>	<b>9</b>	<b>19</b>	<b>1,355</b>	<b>3</b>	<b>22</b>	<b>22</b>
<b>Self-Propelled (total)</b>	<b>7,712</b>	<b>91</b>	<b>8</b>	<b>25</b>	<b>803</b>	<b>9</b>	<b>23</b>	<b>21</b>
Dry Cargo (total)	501	70	8	24	213	30	31	21
Dry Bulk	5	7	11	36	62	93	29	26
Containership	0	0	0	0	77	100	37	17
General Cargo	309	88	8	25	44	12	30	21
Specialized	187	86	7	22	30	14	18	24
Passenger	1,004	100	5	20	5	0	20	33
Offshore Support	1,379	97	8	18	40	3	16	12
Tanker	29	21	10	41	106	79	39	20
Towboat	4,796	92	8	28	439	8	17	22
<b>Non-Self-Propelled (total)</b>	<b>32,956</b>	<b>98</b>	<b>9</b>	<b>18</b>	<b>552</b>	<b>2</b>	<b>20</b>	<b>22</b>
Dry Barge (total)	29,263	99	9	17	290	1	19	23
Dry Covered	13,124	99	9	16	92	1	22	21
Dry Open	9,367	99	9	16	70	1	18	31
Lash / Seabee	1,823	100	9	21	0	0	0	0
Deck	4,812	98	8	23	101	2	17	20
Other Dry <sup>3</sup>	137	84	8	22	27	16	16	17
Tank Barge (total)	3,690	93	10	23	262	7	21	22
Single Hull	631	85	10	30	112	15	21	23
Double Hull <sup>4</sup>	2,515	97	10	20	66	3	22	15
Other Tank <sup>4</sup>	544	87	9	27	84	13	21	24

1 Based on the loaded draft of the vessel; shallow draft is defined as less than or equal to 14 feet and deep draft is greater than 14 feet.

2 Total is greater than the sum because of 3 unclassified vessels and 12 vessels with unknown draft; includes vessels available for operation.

3 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.

4 Includes tank barges that may be double sided only, double bottom only, or not elsewhere included.



FIGURE 13: SUMMARY OF THE UNITED STATES FLAG VESSELS: AVAILABLE VERSUS OPERATING<sup>1</sup>  
BY VESSEL TYPE FOR 1998

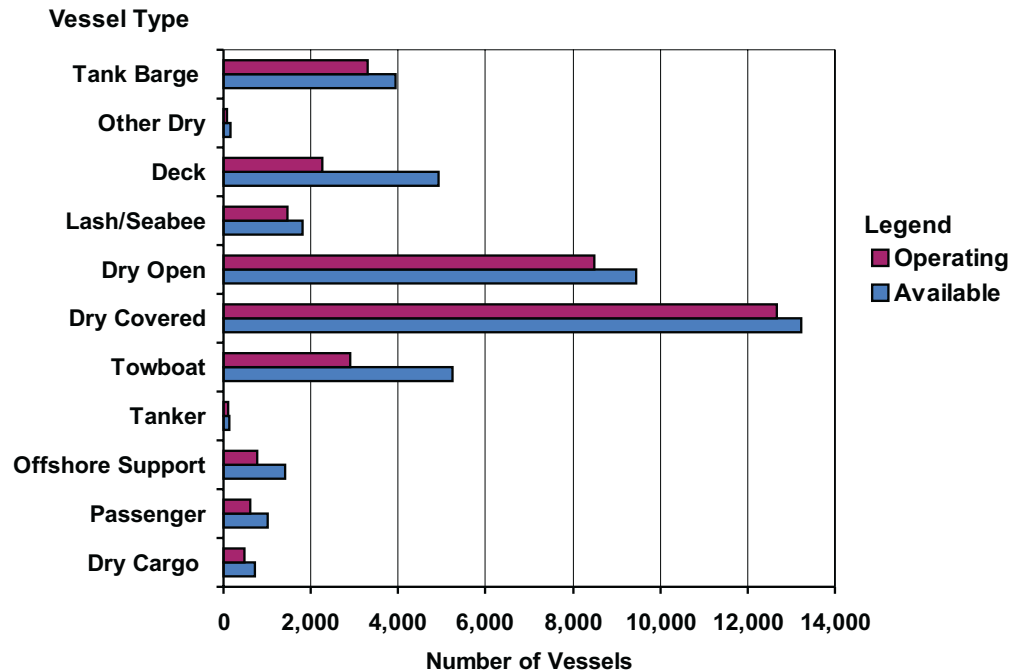


TABLE 13: SUMMARY OF THE UNITED STATES FLAG VESSELS: AVAILABLE VERSUS OPERATING<sup>1</sup>  
BY VESSEL TYPE FOR 1998

Vessel Type	Vessels Available (WTLUS)	Vessels Operating (VOR)	% Operating	Total Operating Vessel Companies <sup>2</sup>
<b>Vessels (total)<sup>3</sup></b>	<b>42,032</b>	<b>33,145</b>	<b>79</b>	<b>1,235</b>
<b>Self-Propelled (total)</b>	<b>8,523</b>	<b>4,873</b>	<b>57</b>	<b>1,069</b>
Dry Cargo (total)	714	471	66	150
Dry Bulk	67	58	87	14
Containership	77	56	73	3
General Cargo	353	226	64	98
Specialized	217	131	60	43
Passenger	1,011	611	60	280
Offshore Support	1,423	769	54	125
Tanker	135	116	86	40
Towboat	5,237	2,906	55	580
<b>Non-Self-Propelled (total)</b>	<b>33,509</b>	<b>28,272</b>	<b>84</b>	<b>478</b>
Dry Barge (total)	29,557	24,962	84	332
Dry Covered	13,216	12,670	96	120
Dry Open	9,437	8,498	90	125
Lash / Seabee	1,823	1,473	81	3
Deck	4,916	2,251	46	224
Other Dry <sup>4</sup>	165	70	42	34
Tank Barge (total)	3,952	3,310	84	201
Single Hull	743	535	72	100
Double Hull <sup>5</sup>	2,581	2,312	90	125
Other Tank <sup>5</sup>	628	463	74	84

<sup>1</sup> Vessels which are available for operation and reported on the 1998 Waterborne Transportation Lines (WTLUS) Annual Questionnaire versus those that are actually operating in 1998 and reported on the Vessel Operation Reports (VORs).

<sup>2</sup> Vessel Companies may operate more than one type of vessel during the year.

<sup>3</sup> Total is greater than the sum because of unclassified vessels; includes vessels available for operation.

<sup>4</sup> Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.

<sup>5</sup> Includes tank barges that may be double sided only, double bottom only, or not elsewhere included.



## ORDERING GUIDE FOR THE NAVIGATION DATA CENTER REPORTS

### Waterborne Commerce, Vessel and Locks Statistics

<u>Title</u>	<u>Sales Price*</u>
Waterborne Commerce of the United States (WCUS)	
Part 1 WCUS, Waterways and Harbors on the Atlantic Coast. . . . .	\$ 13.00
1st Class Postage. . . . .	6.00
Manuscript Data on diskette . . . . .	5.00
Part 2 WCUS, Waterways and Harbors on the Gulf Coast, Mississippi River	
System and Antilles. . . . .	15.00
1st Class Postage. . . . .	6.00
Manuscript Data on diskette . . . . .	5.00
Part 3 WCUS, Waterways and Harbors of the Great Lakes. . . . .	6.00
1st Class Postage. . . . .	3.00
Manuscript Data on diskette . . . . .	5.00
Part 4 WCUS, Waterways and Harbors on the Pacific Coast, Alaska and Hawaii . . .	9.00
1st Class Postage. . . . .	5.00
Manuscript Data on diskette . . . . .	5.00
Part 5 WCUS, National Summaries . . . . .	4.00
1st Class Postage. . . . .	3.00
Public Domain Database (Area to Area or State to State)	
Hardcopy . . . . .	15.00
Diskette . . . . .	5.00
Waterborne Transportation Lines of the United States (WTLUS)	
Volume 1 National Summaries . . . . .	2.00
1st Class Postage. . . . .	2.00
Volume 2 Vessel Company Summary. . . . .	4.00
1st Class Postage. . . . .	3.00
Vessel Company Information on diskette (decompressing utility included). . . .	5.00
Volume 3 Vessel Characteristics . . . . .	20.00
1st Class Postage. . . . .	6.00
Vessel Characteristics on diskette (decompressing utility included) . . . . .	5.00

#### Complimentary Copies

The U.S. Waterway System - FACTS  
 Tonnage for Selected United States Ports  
 State Tonnage Report (Total waterborne commerce by state)  
 Estimated Waterborne Commerce Statistics, National Totals and Selected Inland Waterways  
 Summary of United States Flag Vessels  
 Summary of Lock Statistics (Contact: Bob Baldwin, (703) 428-8047)

\* Effective with the calendar year 1994 publications.

Material may be ordered from Waterborne Commerce Statistics Center, U.S. Army Corps of Engineers, P.O. Box 61280, New Orleans, LA 70161-1280. Checks or money orders should be made out to FAO-B2. Point of contact is Ms. Peggy Galliano (504) 862-1424, FAX (504) 862-1423.

(04/99)

## Ordering Guide for Port Series Reports

<b>PS NO.</b>	<b>Description</b>	<b>Date of Publication</b>	<b>Sales Price</b>
1	Portland and Searsport, ME, and Portsmouth, NH	1985	\$ 8.00
3	Boston, MA	1994	\$16.00
4	Ports of Southern New England (Bridgeport, CT; New Haven, CT; Connecticut River; New London, CT; Providence, RI; Fall River and New Bedford, MA; Fairhaven, MA)	1994	\$20.00
5	New York, NY, and NJ, and Ports on Long Island, NY	1999	\$46.00
6	Albany and Ports on Hudson River, NY	1996	\$14.00
8	Philadelphia, PA; Camden, NJ; Wilmington, DE; and Ports on Delaware River	1998	\$21.00
10	Baltimore, MD	1991	\$9.00
11	Ports of Hampton Roads, and Ports on the James and York Rivers, VA	1993	\$30.00
12	Wilmington and Morehead City, NC	1997	\$20.00
13	Charleston and Georgetown, SC	1997	\$13.00
14	Savannah and Brunswick, GA	1990	\$8.50
15	Jacksonville and Fernandina Beach, FL	1997	\$13.00
16	Miami, Port Everglades, Palm Beach, and Port Canaveral, FL	1999	\$33.00
17	The Ports of Tampa and Port Manatee, FL	1996	\$17.00
18	Mobile, AL	1998	\$9.00
19	Panama City and Penscola, FL; Pascagoula and Gulfport, MS; and Ports on the Apalachicola, Chattahoochee, and Flint Rivers	1998	\$21.00
20	New Orleans, LA	1990	\$12.00
20A	Mississippi River Ports Below and Above New Orleans, LA	1991	\$12.00
21	Baton Rouge and Lake Charles, LA	1990	\$13.00
22	Port Arthur, Beaumont, and Orange, TX	1988	\$9.00
23	Galveston and Texas City, TX	1996	\$17.00
24	Houston, TX	1999	\$33.00
25	Corpus Christi, TX	1993	\$12.00
26	Freeport, Point Comfort/Port Lavaca, Brownsville, and Ports along Gulf Intracoastal Waterway, TX	1991	\$12.00
27	San Diego, CA	1998	\$23.00
28	The Ports of Long Beach, Los Angeles and Port Hueneme, CA	1996	\$23.00
30	San Francisco, Redwood City, and Humboldt Bay, CA	1991	\$9.00
31	Oakland, Alameda, Richmond, and Ports on Carquinez Strait, CA	1991	\$9.00
32	Sacramento, Stockton, Pittsburg and Antioch, Ca	1996	\$22.00
33	Coos Bay, OR	1986	\$13.00
34	Port of Portland, OR and Ports on Columbia-Snake River System , (Astoria, The Dalles, Boardman, and Umatilla, OR; Longview, Kalama, Vancouver, Pasco/ Kennewick, Wilma, and Clarkston, WA; and Lewiston, ID)	1996	\$36.00
35	The Ports of Tacoma, Olympia and Grays Harbor, WA	1993	\$15.00
36	Seattle, WA	1993	\$22.00
37	Port Angeles, Port Townsend, Everett, Anacortes, and Bellingham, WA.	1998	\$10.00
38	Ports of Southeast Alaska (Metlakatla, Ketchikan, Hollis, Thorne Bay, Hydaburg, Craig, Klawock, Wrangell, Petersburg, Kake, Juneau, Angoon, Haines, Skagway, Sitka, Pelican, Gustavus, Hoonah, and Yakutat)	1995	\$23.00
39	Ports of Southwest and Western Alaska (1ST EDITION)	1994	\$23.00
41	Buffalo, Rochester, Oswego, and Ogdensburg, NY	1990	\$7.50
42	U.S. Ports on Lake Erie (Erie, PA; Conneaut, Ashtabula, Fairport Harbor, Lorain, Huron, and Sandusky, OH)	1990	\$10.00
43	Cleveland, OH	1989	\$8.00
44	Toledo, OH	1989	\$7.00
45	Detroit and Ports on the Saginaw River, MI	1996	\$25.00
46	Chicago, IL	1995	\$23.00
48	The Port of Milwaukee, WI and Ports on Lake Michigan	1995	\$26.00
49	Duluth, MN; Superior, WI; Taconite Harbor, Silver Bay, and Two Harbors, MN; and Ashland, WI.	1987	\$7.50
50	Ports of Hawaii (Honolulu, Kahului, Nawiliwili, Port Allen, Kuanakakai, Kaunapau, Hilo, and Kawaihae)	1999	\$15.00
60	Pittsburgh, PA, and Ports on the Ohio, Monogahela, and Allegheny Rivers, PA.	1992	\$14.00
61	Huntington, WV, Ports on Ohio River (Miles 40-317), and Kanawha River, WV	1992	\$14.00
62	Cincinnati, OH, and Ports on Ohio River (Miles 317-560)	1991	\$10.00
63	Louisville, KY, Ports on Ohio River (Miles 560-980), and Cumberland and Green Rivers	1992	\$12.00
64	Ports on Tennessee River, Tennessee-Tombigbee and Black Warrior-Tombigbee Waterways, and Alabama River	1998	\$38.00
65	Illinois Waterway, IL.	1994	\$14.00
68	Ports on the Missouri, Arkansas, Verdigris, White, and Ouachita Rivers	1987	\$12.00
69	Minneapolis-St. Paul, MN, and Ports on Upper Mississippi River (Miles 300-860 AOR)	1994	\$38.00
70	St. Louis, MO, and Ports on Upper Mississippi River (Miles 0-300 AOR)	1992	\$11.00
71	Memphis, TN; Helena, AR; and Ports on Lower Mississippi River (Miles 620-954 AHP)	1993	\$12.00
72	Natchez, Vicksburg, and Greenville, MS, and Ports on Lower Mississippi River (Miles 255-620 AHP)	1991	\$9.00

NOTE: DUE TO THE DECLINE IN REVENUE FACING THE SALES PROGRAM, THE U.S. GOVERNMENT PRINTING OFFICE HAS RAISED PRICES BY AN AVERAGE OF 15% FROM THE PRICES THAT WERE IN EFFECT BEFORE THE INTERIM 5% INCREASE WHICH TOOK EFFECT IN JUNE 1999.

Port Series reports may be ordered from the Navigation Data Center (CEWRC-NDC-P), 7701 Telegraph Road, Casey Building, Alexandria, VA 22315-3868. Federal law requires advance payment for all purchases. Check or money order (in U.S. funds) should be made payable to the Superintendent of Documents. Telephone/telefax orders are accepted and can be charged to Visa, Master Card, Discover/Novus. Publications are mailed postpaid (4th Class Mail) on the same day that order is received unless a prepaid alternate delivery method is specified. Prices are subject to change without notice.

**Contact:** Donna Norbutt - voice (703) 428-8059 FAX: (703) 428-6047 or 428-8171.

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